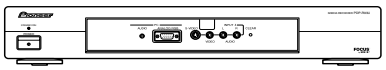
Pioneer sound.vision.soul

Service Manual



PDP-R03U

ORDER NO.
ARP3113

MEDIA RECEIVER

PDP-R03U

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
PDP-R03U	KUC	AC120V	

Please connect it to the PLASMA DISPLAY PDP-503PU or PDP-433PU, for adjustment and operation inspection.

Component	System	Service Manual	Remarks
PLASMA DISPLAY SYSTEM	PDP-5030HD	——	
PLASMA DISPLAY	PDP-503PU	ARP3107, ARP3108	
MEDIA RECEIVER	PDP-R03U	ARP3113	This manual

Component	System	Service Manual	Remarks
PLASMA DISPLAY SYSTEM	PDP-4330HD	——	
PLASMA DISPLAY	PDP-433PU	ARP3111, ARP3112	
MEDIA RECEIVER	PDP-R03U	ARP3113	This manual

For details, refer to "Important symbols for good services".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2002**
T-ZZK APR. 2002.printed in Japan

SAFTY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

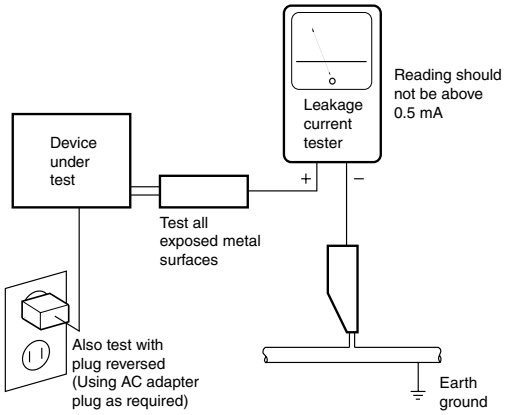
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

CONTENTS

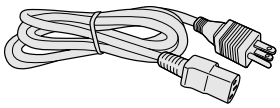
SAFTY INFORMATION 2
1. SPECIFICATIONS 5
2. EXPLODED VIEWS AND PARTS LIST 6
2.1 PACKING 6
2.2 EXTERIOR SECTION 8
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 10
3.1 SYSTEM BLOCK DIAGRAM 10
3.2 SIGNAL FLOW BLOCK DIAGRAM 12
3.3 DC/DC CONVERTER CONNECTION DIAGRAM 14
3.4 POWER BLOCK DIAGRAM 16
3.5 PC/IF BLOCK DIAGRAM 18
3.6 PRINTED WIRING BOARD BLOCK DIAGRAM 20
3.7 OVERALL WIRING DIAGRAM (1) 24
3.8 OVERALL WIRING DIAGRAM (2) 26
3.9 MAIN UNIT (1/7) 28
3.10 MAIN UNIT (2/7) 30
3.11 MAIN UNIT (3/7) 32
3.12 MAIN UNIT (4/7) 34
3.13 MAIN UNIT (5/7) 36
3.14 MAIN UNIT (6/7) 38
3.15 MAIN UNIT (7/7) 40
3.16 FRONT UNIT 42
3.17 AV UNIT (1/3) 44
3.18 AV UNIT (2/3) 46
3.19 AV UNIT (3/3) 48
3.20 LED UNIT 49
3.21 SR CONNECT UNIT 50
3.22 PC I/F UNIT (1/7) 52
3.23 PC I/F UNIT (2/7) 54
3.24 PC I/F UNIT (3/7) 56
3.25 PC I/F UNIT (4/7) 58
3.26 PC I/F UNIT (5/7) 60
3.27 PC I/F UNIT (6/7) 62
3.28 PC I/F UNIT (7/7) 64
3.29 POWER and EMC UNITS 66
4. PCB CONNECTION DIAGRAM 68
4.1 POWER and EMC UNITS 69
4.2 MAIN UNIT 70
4.3 FRONT, LED and SR CONNECT UNIT 72
4.4 AV UNIT 73
4.5 PC I/F UNIT 74
5. PCB PARTS LIST 76
6. ADJUSTMENT 99
7. GENERAL INFORMATION 105
7.1 DIAGNOSIS 105
7.1.1 TROUBLE SHOOTING 105
7.1.2 DISASSEMBLY 112
7.2 IC 114
7.3 IC DESCRIPTIONS 138
8. PANEL FACILITIES 141

1. SPECIFICATIONS

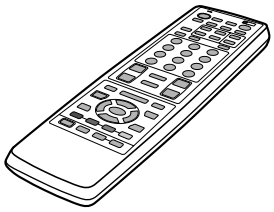
Item			Media Receiver, Model: PDP-R03U
Reception System			American TV standard NTSC system
TV Function	Circuit type		Video signal detection PLL full synchr onous detection, PLL digital synthesizer system
	Tuner	VHF/UHF	VHF 2–13ch, UHF 14–69ch
		CATV	1–125ch
	Audio multiplex		BTSC system
Terminals	Rear	INPUT 1	S-VIDEO in, AV in, COMPONENT in
		INPUT 2	S-VIDEO in, AV in
		INPUT 3	S-VIDEO in, AV in, COMPONENT in, RGB in
		Antenna	75 Ω UNBAL, F Type for VHF/UHF/CATV in
	Front	INPUT 4	S-VIDEO, AV in
		PC	15 Pin mini D-Sub, Audio in
Monitor Out Terminal		Rear	S-VIDEO out, AV out, Audio (Variable, Fixed)
OSD Language			English/French/Spanish
Other Features			Picture & Picture, Still image, Dual Tuner System
Power Requirement			120 V AC, 60 Hz, 40 W (0.2 W Standby)
Dimensions			420 (W) × 70 (H) × 330 (D) mm (16 $^{9}/_{16}$ (W) × 2 $^{25}/_{32}$ (H) × 13 (D) inch)
Weight			4.4 kg (9.7 lbs.)
Accessories			Power cord, Remote control unit, Two AA size batteries, System cable, Operating instruction

- Design and specifications ar e subject to change without notice.

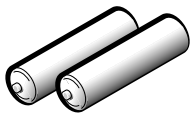
• accessories



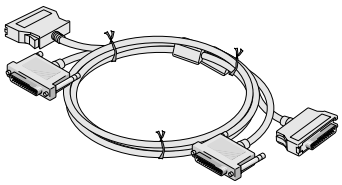
Power cord
(QACCDA007WJPZ)



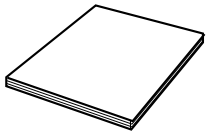
Remote control unit
(RRMCG1679CESA)



Two AA size batteries
(Alkaline battery)



System cable
(QCNW-6117CEZZ)

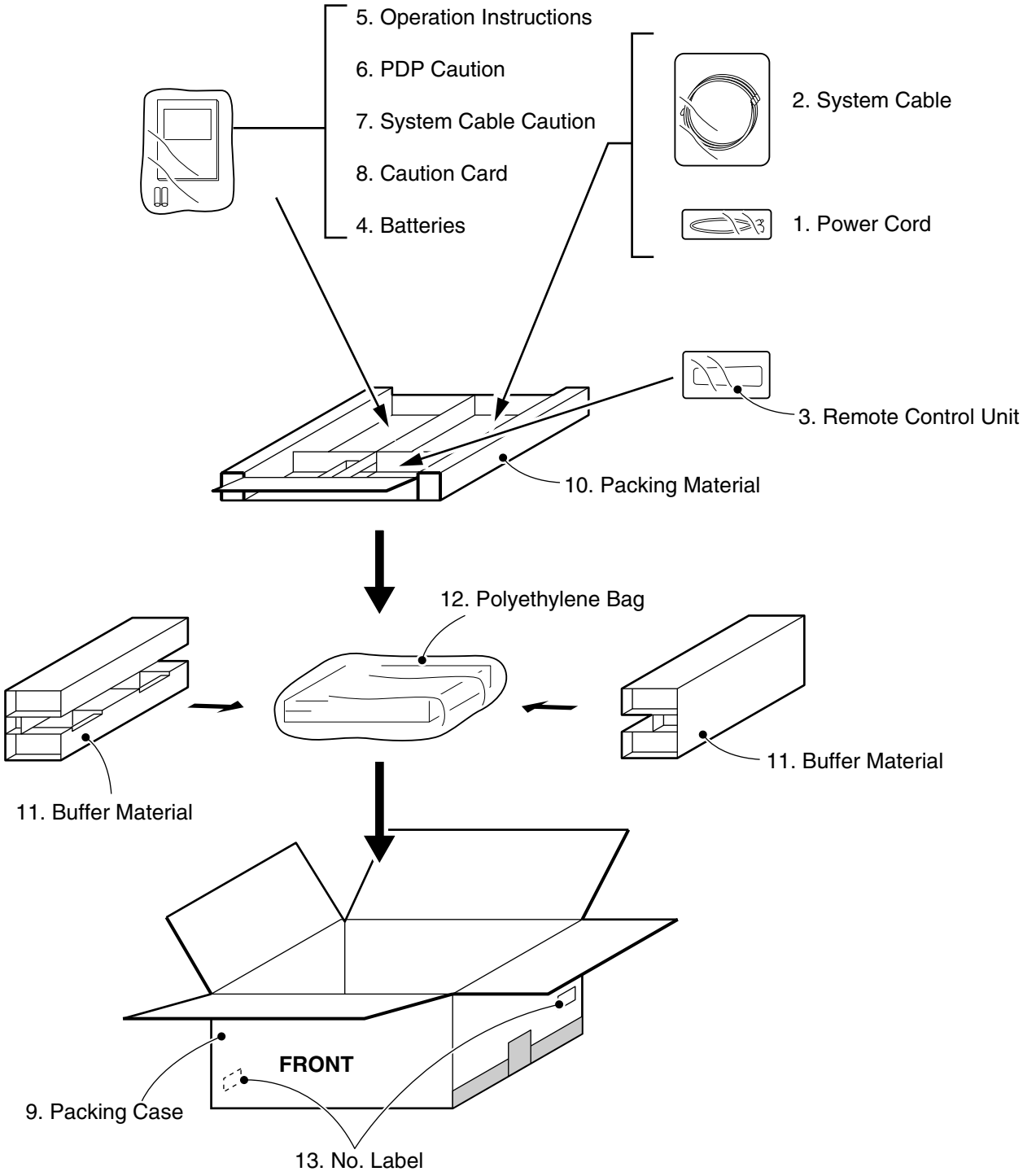


Operating instruction
(TINS-7552CEZZ)

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

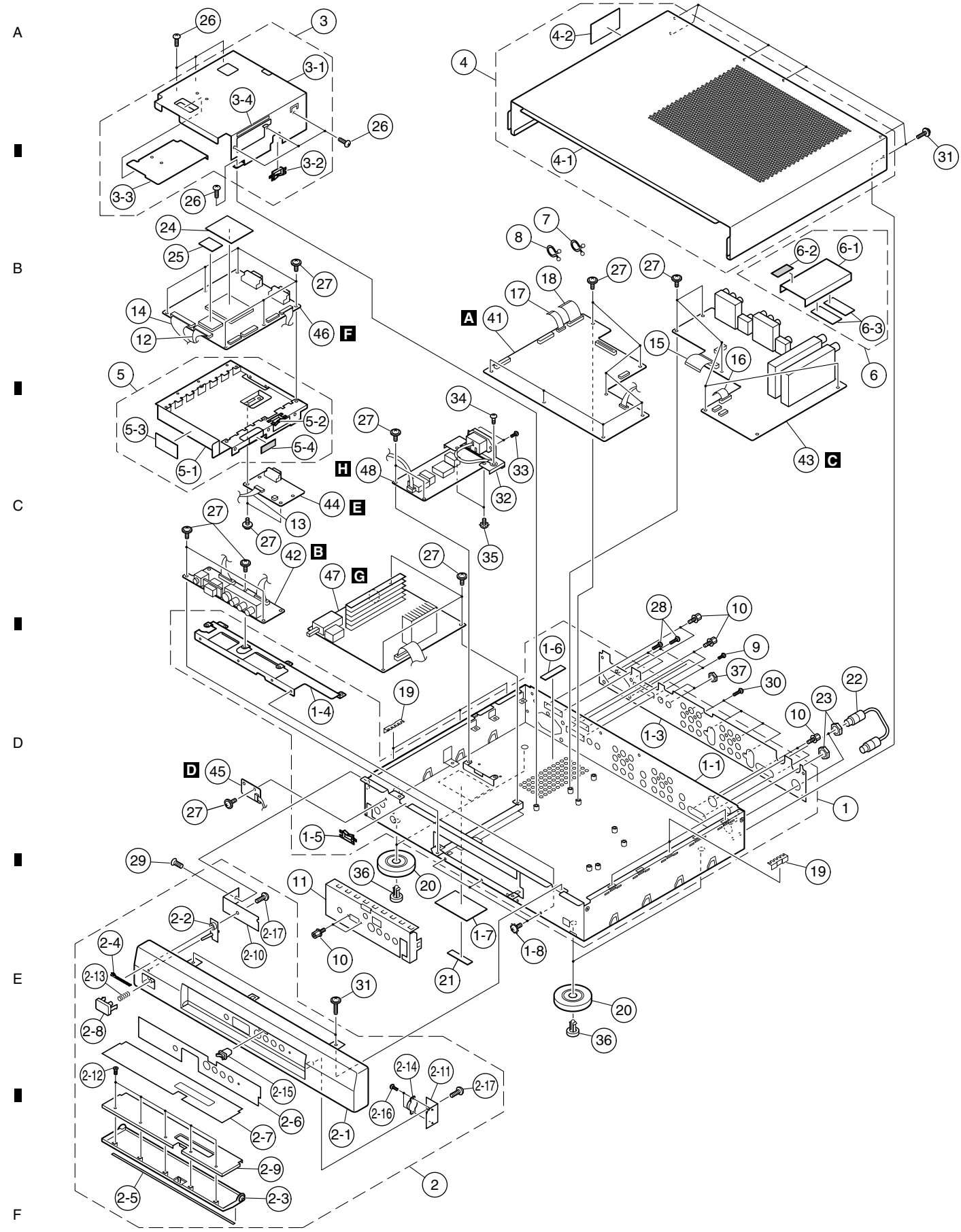
2.1 PACKING



PACKING parts List

Mark	No.	Description	Part No.
⚠	1	Power Cord	QACCDA007WJPZ
	2	System Cable	QCNW-6117CEZZ
	3	Remote Control Unit	RRMCG1679CESA
NSP	4	Battery (AA)	••••••
	5	Operation Instructions (English/French/Spanish)	TINS-7552CEZZ
	6	PDP Caution	TCAUH1223CEZZ
	7	System Cable Caution	TCAUH1227CEZZ
	8	Caution Card	TCAUH1231CEZZ
	9	Packing Case	SPAKC5648CEZZ
	10	Buffer Material	SPAKXA001CEZZ
	11	Packing Material	SPAKF0515CEZZ
	12	Polyethylene Bag	SSAKH0173CEZZ
	13	No Label	TLABK0016CEZZ

2.2 EXTERIOR SECTION



EXTERIOR SECTION parts List

Mark	No.	Description	Part No.
	1	Bottom Cabinet Assy	CCABA3103CE01
NSP	1-1	Bottom Cabinet	• • • • • •
	1-3	Terminal Indicator	HINDP5928CESA
	1-4	Fixing Metal	LANGT9035CEFW
	1-5	Holder	LHLDW1021GE00
	1-6	Gasket	QEARZA007WJZZ
	1-7	Model Label	TLABM4302CEZZ
	1-8	Screw	XBPSD30P06R00
	2	Front Panel Assy	CWAKP1474CE01
NSP	2-1	Front Panel	• • • • • •
	2-2	LED Cover	GCOVA2015CEKA
	2-3	Door	GDORF3026CEKA
	2-4	Pioneer Badge	HBDGE3130CESA
	2-5	Decoration Plate	HDECP0171CESA
	2-6	Control Indicator	HINDP5932CESA
	2-7	Door Indicator	HINDP5852CESA
	2-8	Power Button	JBTN-2073CEKA
	2-9	Fixing Metal(Door)	LANGF9655CESA
	2-10	Fixing Metal	LANGF9660CEFW
	2-11	Fixing Metal(Damper)	LANGT9040CEFW
	2-12	Screw	LX-HZ3111CEFN
	2-13	Spring	MSPRC0061CEFW
	2-14	Damper	PDMPF1009CEZZ
	2-15	Ratch	PKAI-0004GEZZ
	2-16	Screw	XBPSD20P05000
	2-17	Screw	XEBSD30P08000
	3	Shield Assy	CSLDM4688CE01
NSP	3-1	Shield	• • • • • •
	3-2	Holder	LHLDW1021GE00
	3-3	Heat Sink	PRDAR1567CEFW
	3-4	Spacer	PSPAH0720CEZZ
	4	Top Cabinet Assy	CCABB3078CE01
NSP	4-1	Top Cabinet	• • • • • •
	4-2	Caution Label	TCAUHA001WJZZ
	5	Fixing Metal Assy	CANGT9033CE01
NSP	5-1	Fixing Metal	• • • • • •
	5-2	Holder	LHLDW1021GE00
	5-3	Shield	PSLDM0152CEZZ
	5-4	Spacer	PSPAH0721CEZZ
	6	Ground-Part Assy	CANGTA001WJ01
NSP	6-1	Ground-Part	• • • • • •
	6-2	Spacer	PMLT-A001WJZZ
	6-3	Gasket	QEARZA010WJZZ
	7	Holder	LHLDW1009CEZZ
	8	Holder	LHLDW1060CEZZ
	9	Screw	LX-BZ3434CEFN
	10	Shaft	NSFTZ0134CEFW
	11	Shield	PSLDM4686CEFW

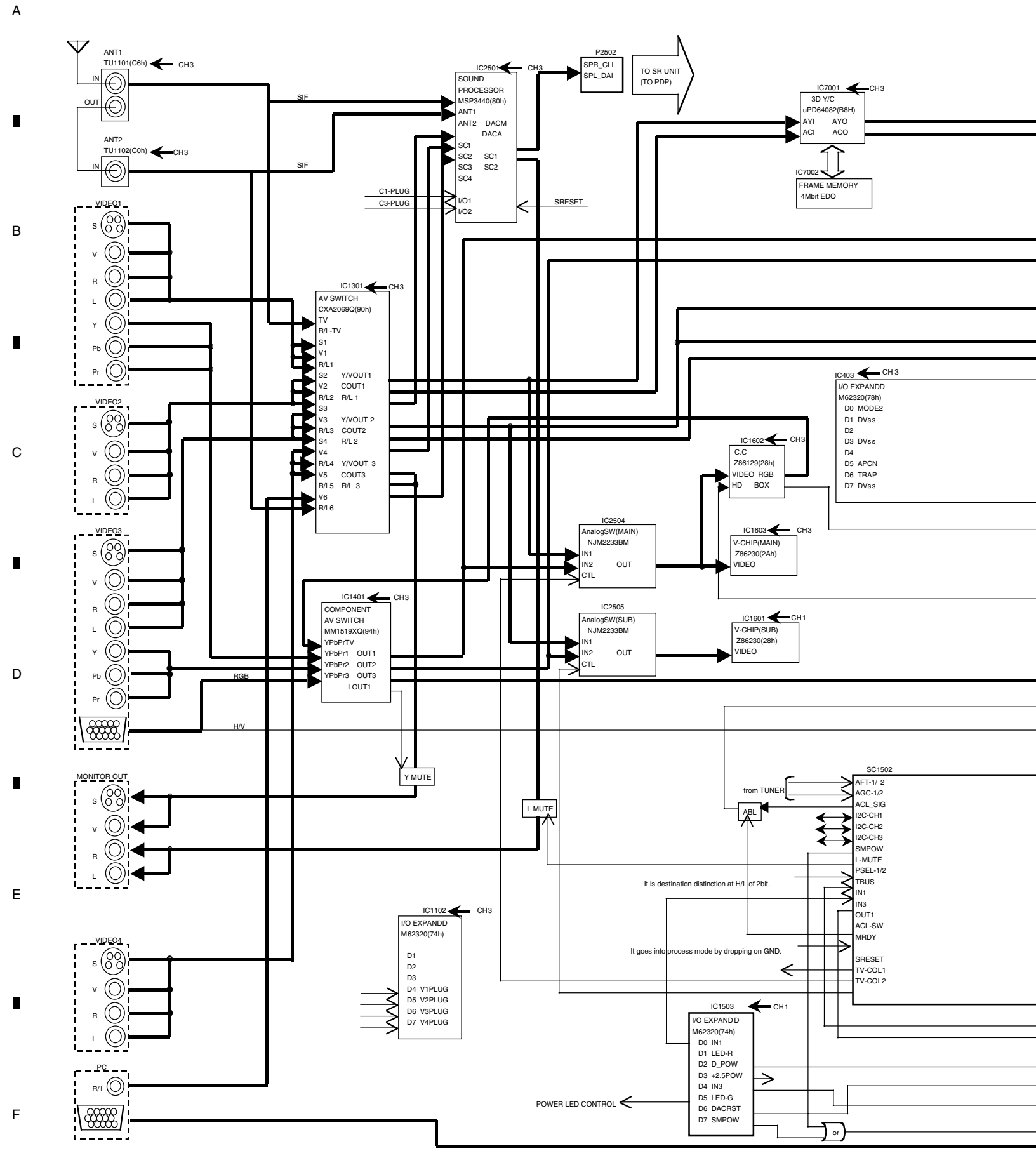
Mark	No.	Description	Part No.
	12	Connecting Cord(Front-PC Boad)	QCNW-6074CEZZ
	13	Connecting Cord(SR-PC Boad)	QCNW-6078CEZZ
	14	Connecting Cord(main-PC Boad)	QCNW-6080CEZZ
	15	FFC(Main-AV)	QCNW-6081CEZZ
	16	FFC(Main-AV)	QCNW-6082CEZZ
	17	FFC(Main-PB_BD))	QCNW-6083CEZZ
	18	FFC(Main-PB_BD))	QCNW-6084CEZZ
	19	Ground-Part(Cabi)	QEARZ0056CEFW
	20	Leg	GLEGP9133CESA
	21	Serial No. Label	TLABN0411CEZZ
	22	RF Cable	QCNW-A342WJZZ
	23	Nut,x3	LX-NZ3047GEZZ
	24	Spacer	PSPAZ0464CEKZ
	25	Spacer	PSPAZ0465CEKZ
	26	Screw,x7	XBBSN30P06000
	27	Screw,x30	XBPSD30P06JS0
	28	Screw,x4	XBPSN30P06000
	29	Screw	XBSSD30P06000
	30	Screw,x4	XEBSF30P08000
	31	Screw,x8	XJPSN30P08XS0
	32	AC Inlet Angle	LANGK3000SNEZ
	33	Screw, x2	XBSSF30P06000
	34	Screw	XBPBN40P06K00
	35	Screw, x2	LX-BZ1001SNEZ
	36	Screw,x4	LX-LZ1005AEZZ
	37	Nut,x2	LX-NZ3182CEFN
	38	• • • • • •	
	39	• • • • • •	
	40	• • • • • •	
	41	MAIN UNIT	DUNTKA535DE04
	42	FRONT UNIT	DUNTKA617DE01
	43	AV UNIT	DUNTKA616DE01
	44	SR CONNECT UNIT	DUNTKA618DE01
	45	LED UNIT	DUNTKA619DE01
	46	PC I/F UNIT	CPCI-0056CE15
	47	POWER UNIT	RDENC0331CEZZ
	48	EMC UNIT	RDENCA007WJZZ

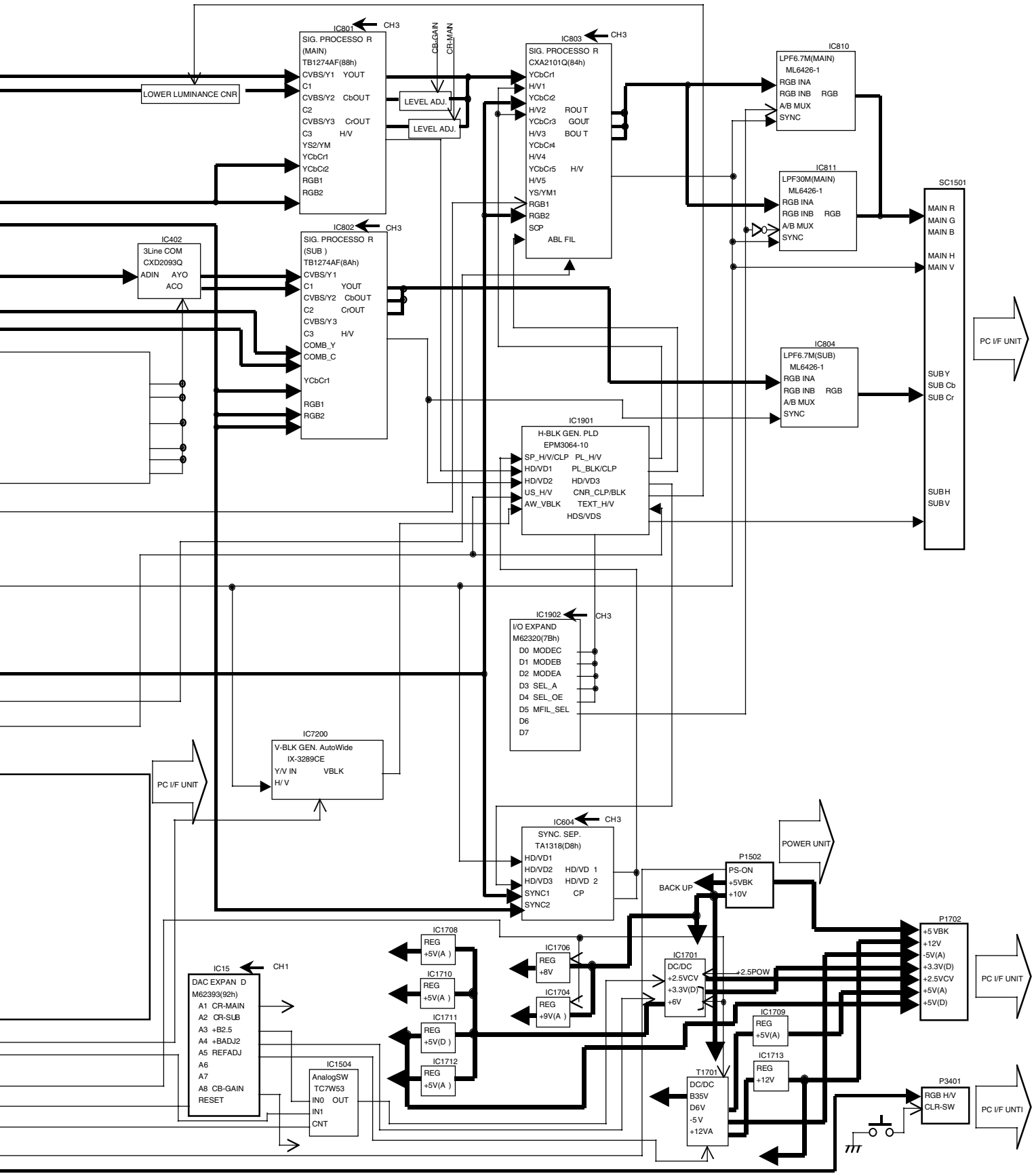
SERVICE JIGS

Connector, 30-pin (PC I/F-MAIN)	QCNW-6099CEZZ	
Connector, 50-pin (PC I/F-MAIN)	QCNW-6100CEZZ	
Connector, 4-pin (SR-AV)	QCNW-6101CEZZ	
Connector, 13-pin (PC I/F-FRONT)	QCNW-6102CEZZ	
Connector, 12-pin (PC I/F-MAIN)	QCNW-6103CEZZ	

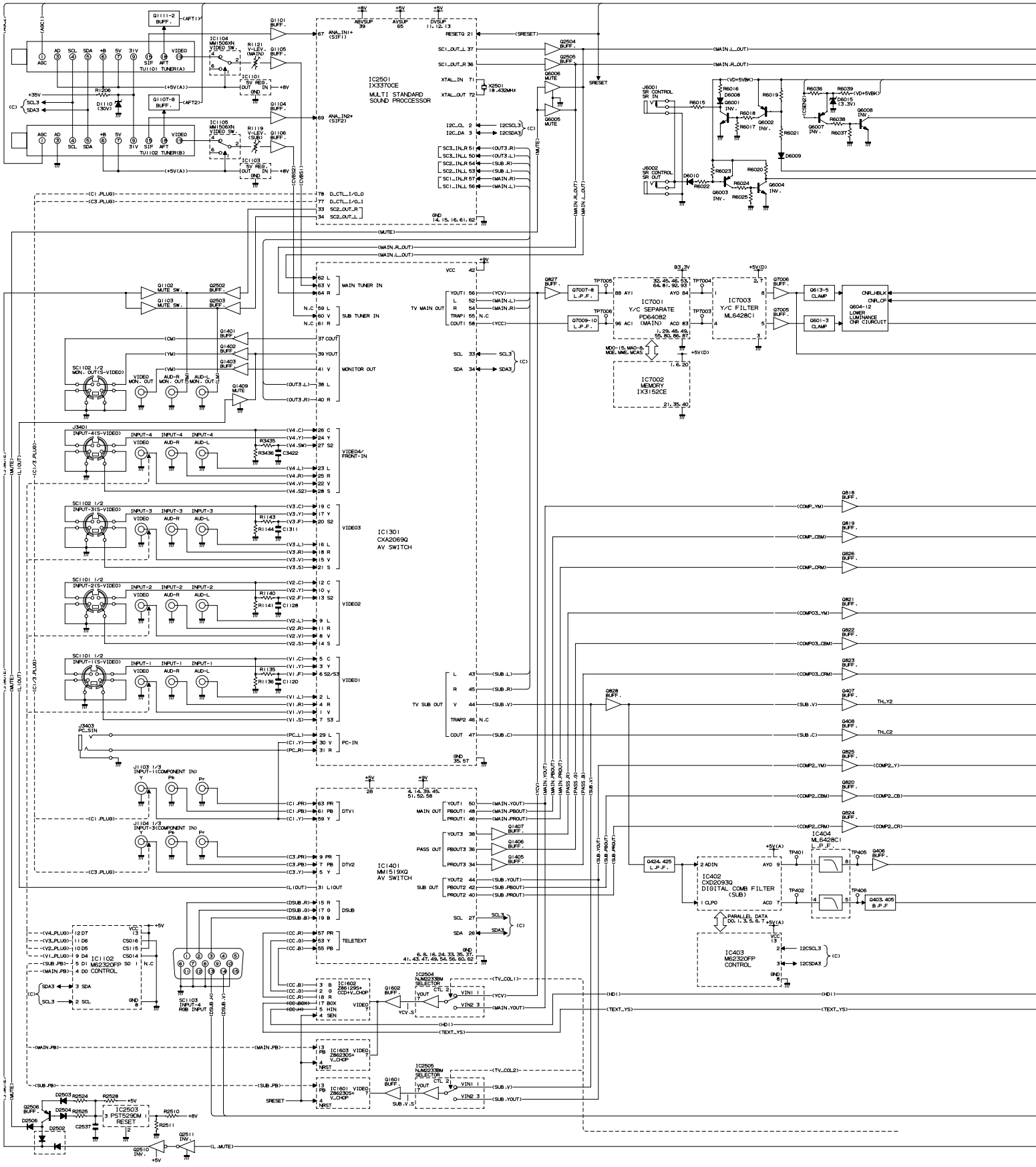
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

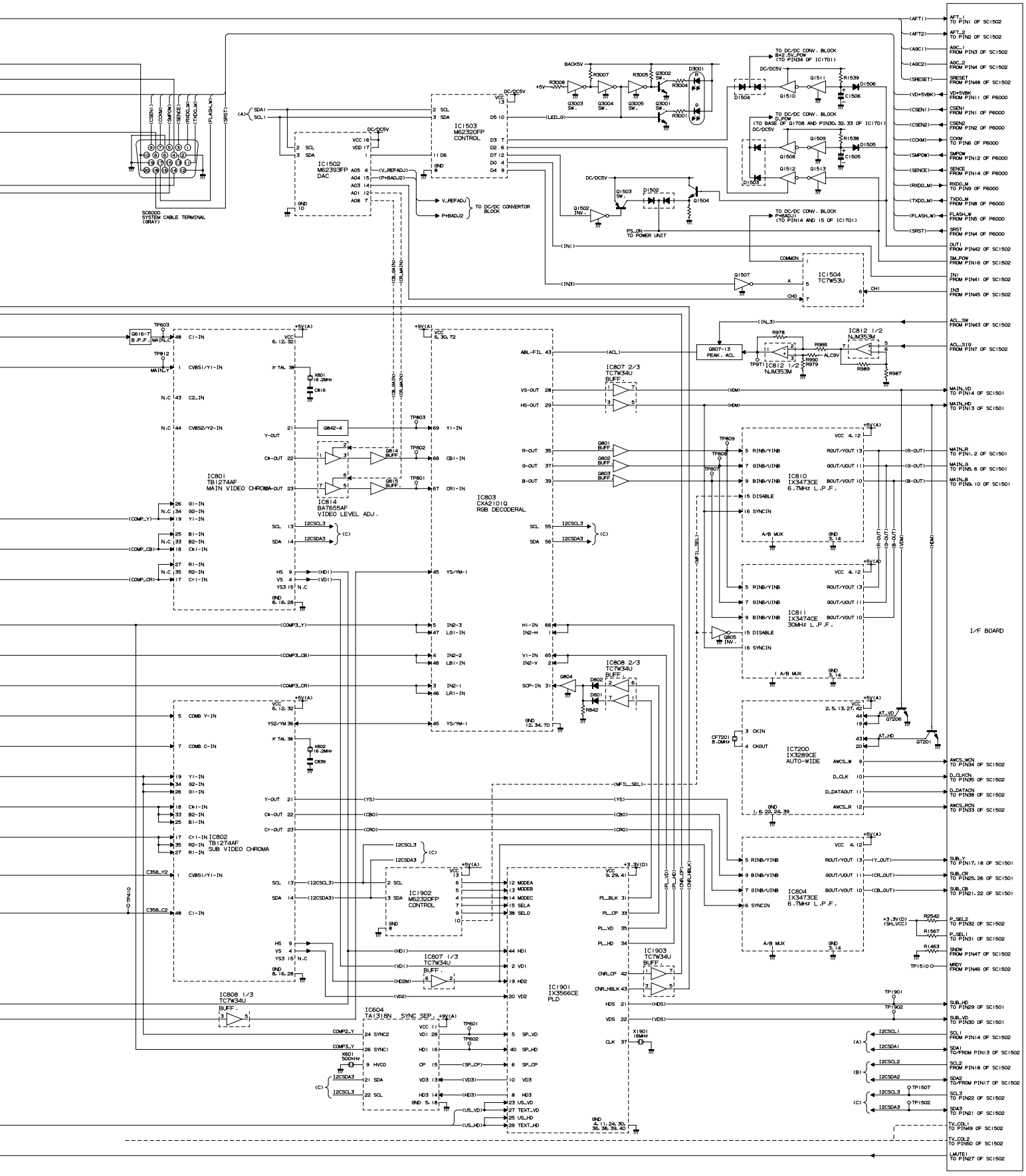
3.1 SYSTEM BLOCK DIAGRAM



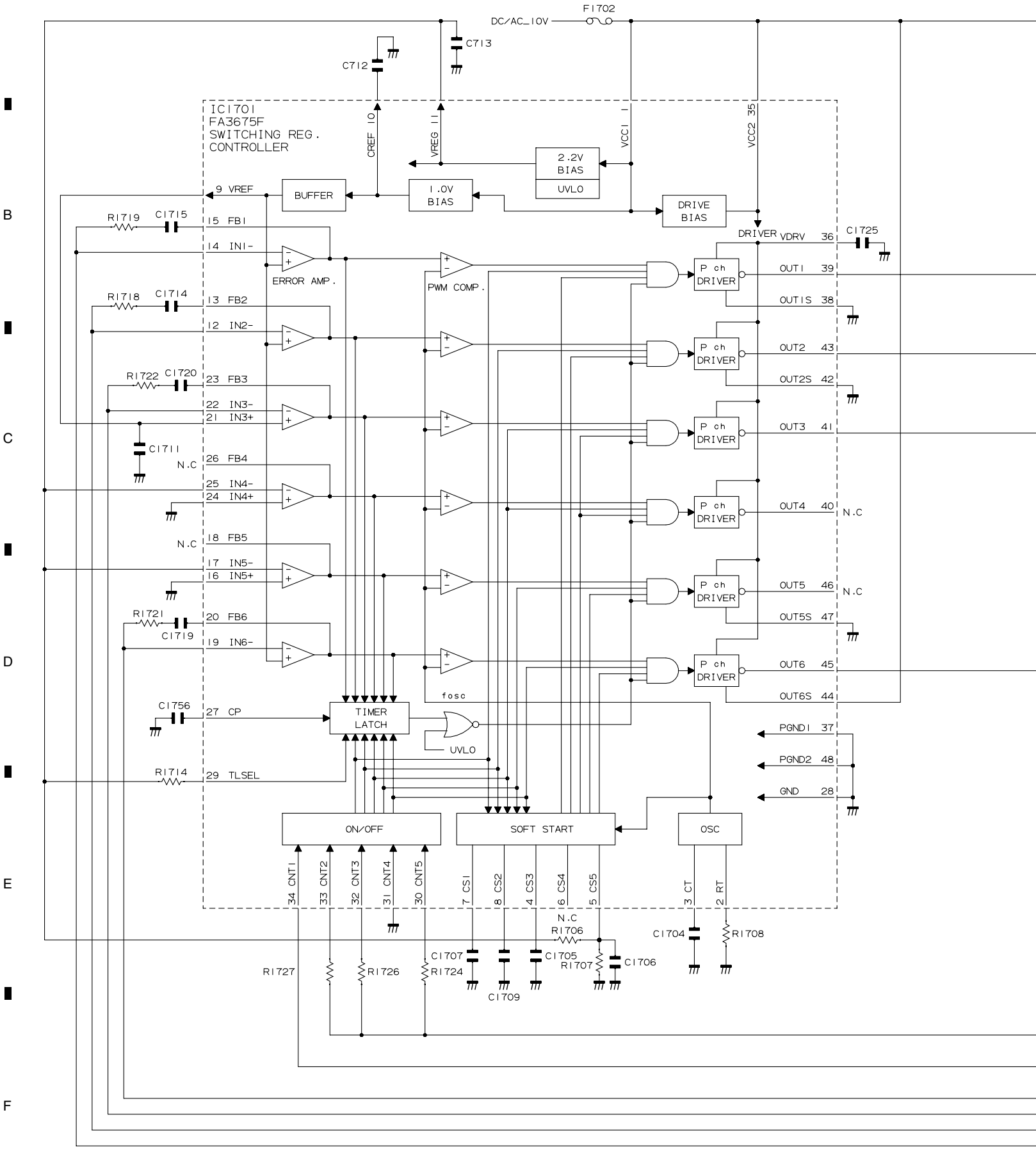

IC801
CH3
SIG. PROCESSO R
(MAIN)
TB1274AF(88h)
CVBS/Y1 YOUT
C1
CVBS/Y2 CbOUT
C2
CVBS/Y3 CrOUT
C3 H/V
YS2/YM
YCbCr1
YCbCr2
RGB1
RGB2
LOWER LUMINANCE CNR
CB-GAIN
CR-MAN
LEVEL ADJ.
LEVEL ADJ.
IC803
CH3
SIG. PROCESSO R
CXA2101Q(84h)
YCbCr1
H/V1
YCbCr2
H/V2 ROU T
YCbCr3 GOUT
H/V3 BOU T
YCbCr4
H/V4
YCbCr5 H/V
H/V5
YS/YM1
RGB1
RGB2
SCP
ABL FIL
IC810
LPF6.7M(MAIN)
ML6426-1
RGB INA
RGB INB RGB
A/B MUX
SYNC
IC811
LPF30M(MAIN)
ML6426-1
RGB INA
RGB INB RGB
A/B MUX
SYNC
SC1501
MAIN R
MAIN G
MAIN B
MAIN H
MAIN V
SUB Y
SUB Cb
SUB Cr
SUB H
SUB V
PC I/F UNIT
IC402
3Line COM
CXD2093Q
ADIN AYO
ACO
IC802
CH3
SIG. PROCESSO R
(SUB)
TB1274AF(8Ah)
CVBS/Y1
C1 YOUT
CVBS/Y2 CbOUT
C2 CrOUT
CVBS/Y3
C3 H/V
COMB_Y
COMB_C
YCbCr1
RGB1
RGB2
IC804
LPF6.7M(SUB)
ML6426-1
RGB INA
RGB INB RGB
A/B MUX
SYNC
IC1901
H-BLK GEN. PLD
EPM3064-10
SP_H/V/CLP PL_H/V
HD/VD1 PL_BLK/CLP
HD/VD2 HD/VD3
US_H/V CNR_CLP/BLK
AW_VBLK TEXT_H/V
HDS/VDS
IC1902
CH3
I/O EXPAND
M62320(7Bh)
D0 MODEC
D1 MODEB
D2 MODEA
D3 SEL_A
D4 SEL_OE
D5 MFIL_SEL
D6
D7
IC7200
V-BLK GEN. AutoWide
IX-3289CE
Y/V IN VBLK
H/ V
PC I/F UNIT
IC604
CH3
SYNC. SEP.
TA1318(D8h)
HD/VD1
HD/VD2 HD/VD 1
HD/VD3 HD/VD 2
SYNC1 CP
SYNC2
POWER UNIT
P1502
PS-ON
+5VBK
+10V
BACK UP
IC1708
REG
+5V(A)
IC1710
REG
+5V(A)
IC1711
REG
+5V(D)
IC1712
REG
+5V(A)
IC1706
REG
+8V
IC1704
REG
+9V(A)
IC1701
DC/DC
+2.5VCV
+3.3V(D)
+6V
+2.5POW
P1702
+5 VBK
+12V
-5V(A)
+3.3V(D)
+2.5VCV
+5V(A)
+5V(D)
PC I/F UNIT
IC1709
REG
+5V(A)
IC1713
REG
+12V
IC15
CH1
DAC EXPAN D
M62393(92h)
A1 CR-MAIN
A2 CR-SUB
A3 +B2.5
A4 +BADJ2
A5 REFADJ
A6
A7
A8 CB-GAIN
RESET
IC1504
AnalogSW
TC7W53
IN0 OUT
IN1
CNT
T1701
DC/DC
B35V
D6V
-5 V
+12VA
P3401
RGB H/V
CLR-SW
PC I/F UNTI

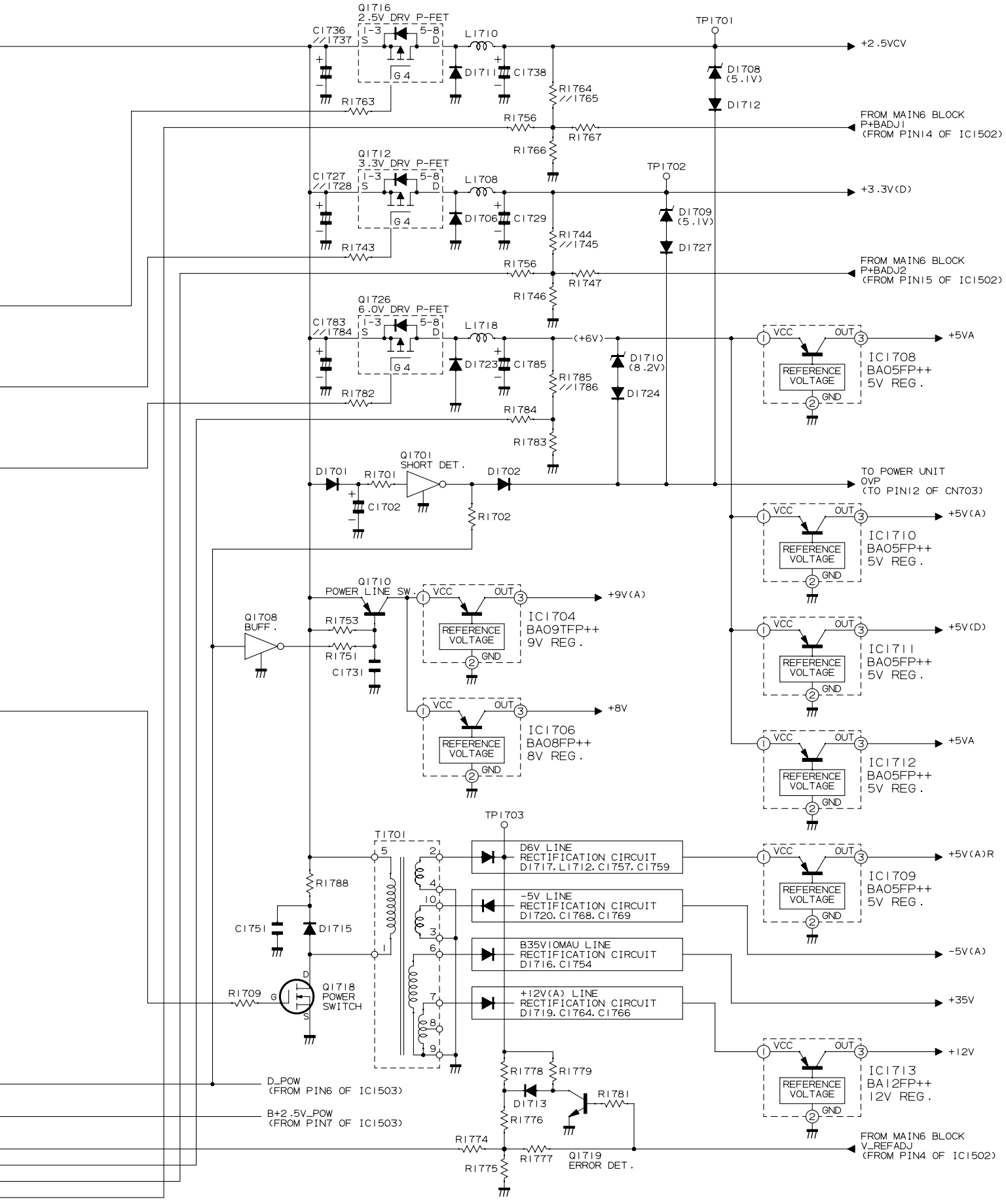
3.2 SIGNAL FLOW BLOCK DIAGRAM



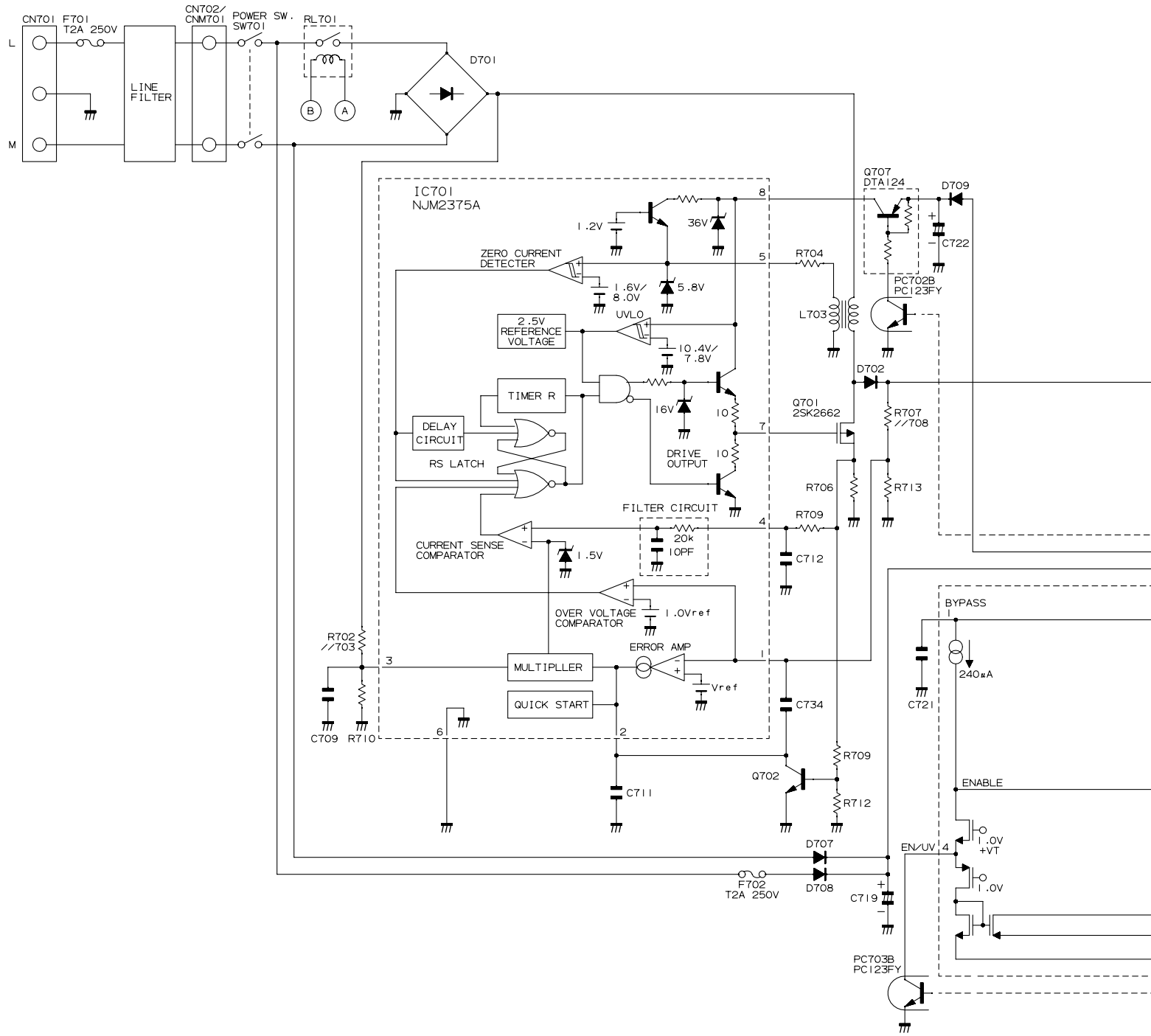


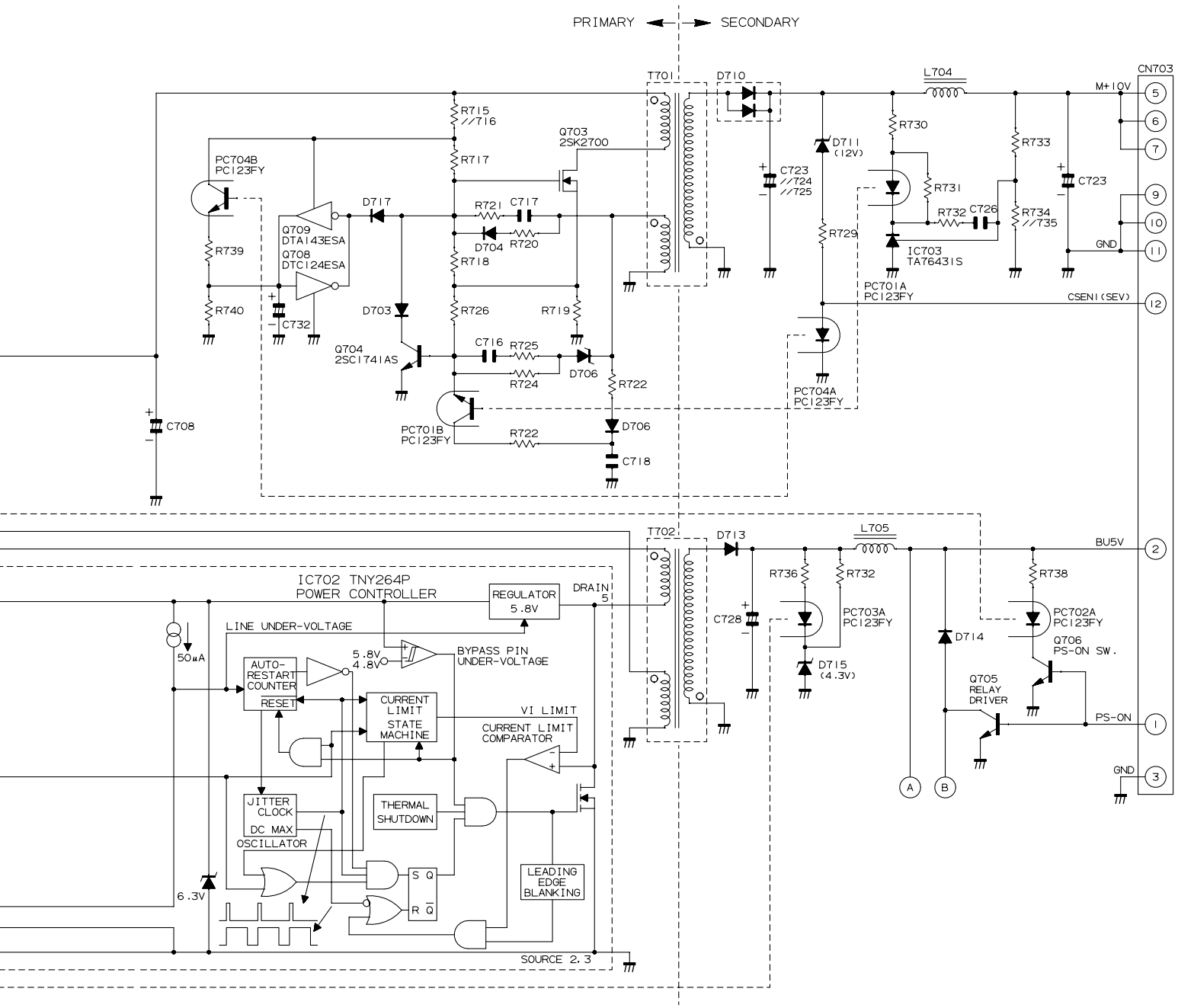
3.3 DC/DC CONVERTER CONNECTION DIAGRAM



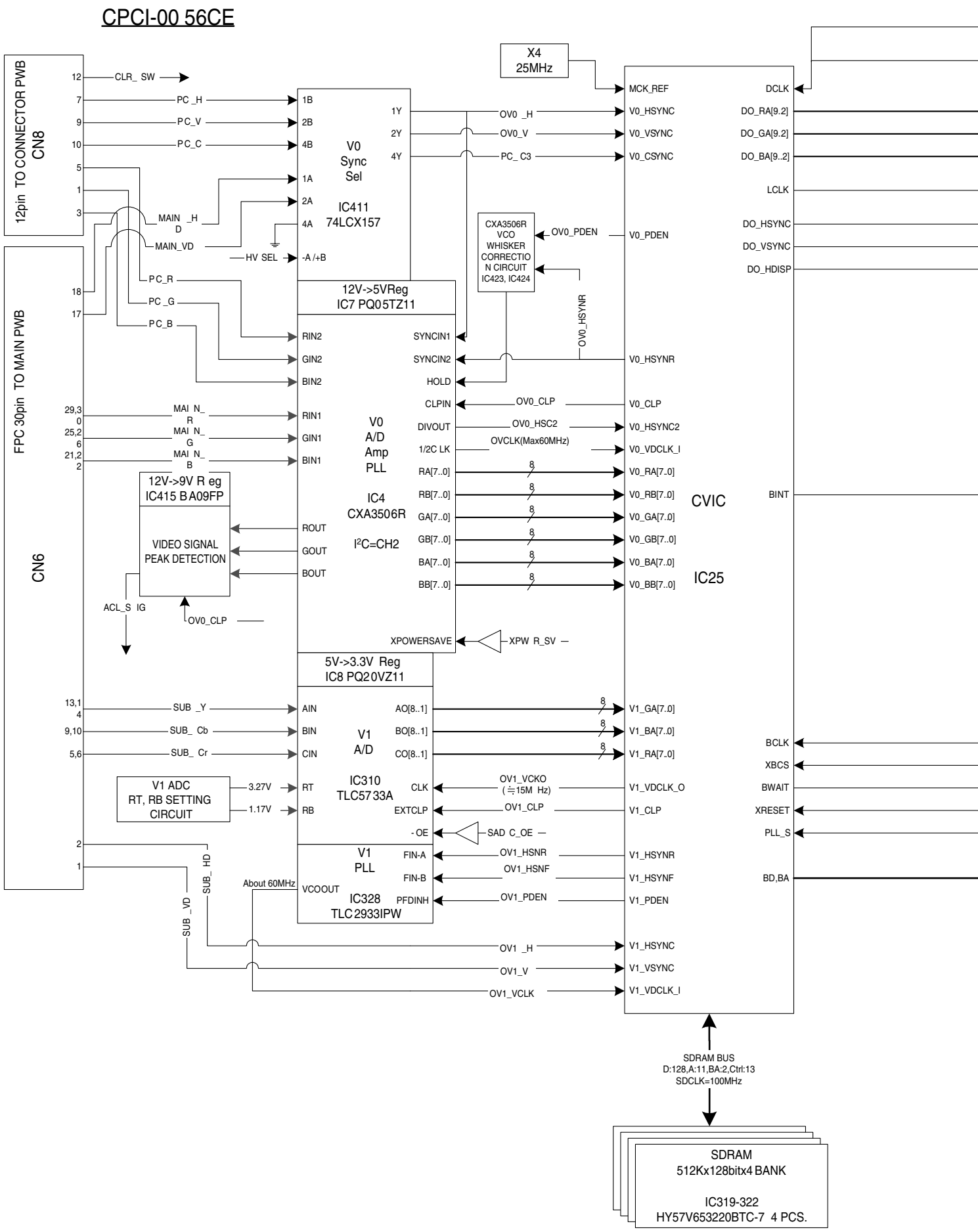

Q1716
2.5V_DRV P-FET
C1736
//1737
L1710
TP1701
+2.5VCV
D1711
C1738
D1708
(5.1V)
D1712
R1763
R1764
//1765
R1756
R1767
FROM MAIN6 BLOCK
P+BADJ1
(FROM PIN14 OF IC1502)
R1766
Q1712
3.3V_DRV P-FET
C1727
//1728
L1708
TP1702
+3.3V(D)
D1706
C1729
D1709
(5.1V)
D1727
R1743
R1744
//1745
R1756
R1747
FROM MAIN6 BLOCK
P+BADJ2
(FROM PIN15 OF IC1502)
R1746
Q1726
6.0V_DRV P-FET
C1783
//1784
L1718
(+6V)
+5VA
D1723
C1785
D1710
(8.2V)
D1724
IC1708
BA05FP++
5V REG.
R1782
R1785
//1786
R1784
R1783
Q1701
SHORT DET.
D1701
R1701
D1702
TO POWER UNIT
OVP
(TO PIN12 OF CN703)
C1702
R1702
+5V(A)
IC1710
BA05FP++
5V REG.
Q1710
POWER LINE SW.
+9V(A)
Q1708
BUFF.
R1753
R1751
C1731
IC1704
BA09TFP++
9V REG.
+5V(D)
IC1711
BA05FP++
5V REG.
+8V
IC1706
BA08FP++
8V REG.
+5VA
IC1712
BA05FP++
5V REG.
TP1703
T1701
D6V LINE
RECTIFICATION CIRCUIT
D1717, L1712, C1757, C1759
+5V(A)R
IC1709
BA05FP++
5V REG.
R1788
-5V LINE
RECTIFICATION CIRCUIT
D1720, C1768, C1769
C1751
D1715
B35V10MAU LINE
RECTIFICATION CIRCUIT
D1716, C1754
-5V(A)
R1709
Q1718
POWER
SWITCH
+12V(A) LINE
RECTIFICATION CIRCUIT
D1719, C1764, C1766
+35V
+12V
IC1713
BA12FP++
12V REG.
R1778
R1779
D1713
R1781
R1776
D_POW
(FROM PIN6 OF IC1503)
B+2.5V_POW
(FROM PIN7 OF IC1503)
R1774
R1777
Q1719
ERROR DET.
R1775
FROM MAIN6 BLOCK
V_REFADJ
(FROM PIN4 OF IC1502)
VCC
OUT
GND
REFERENCE
VOLTAGE

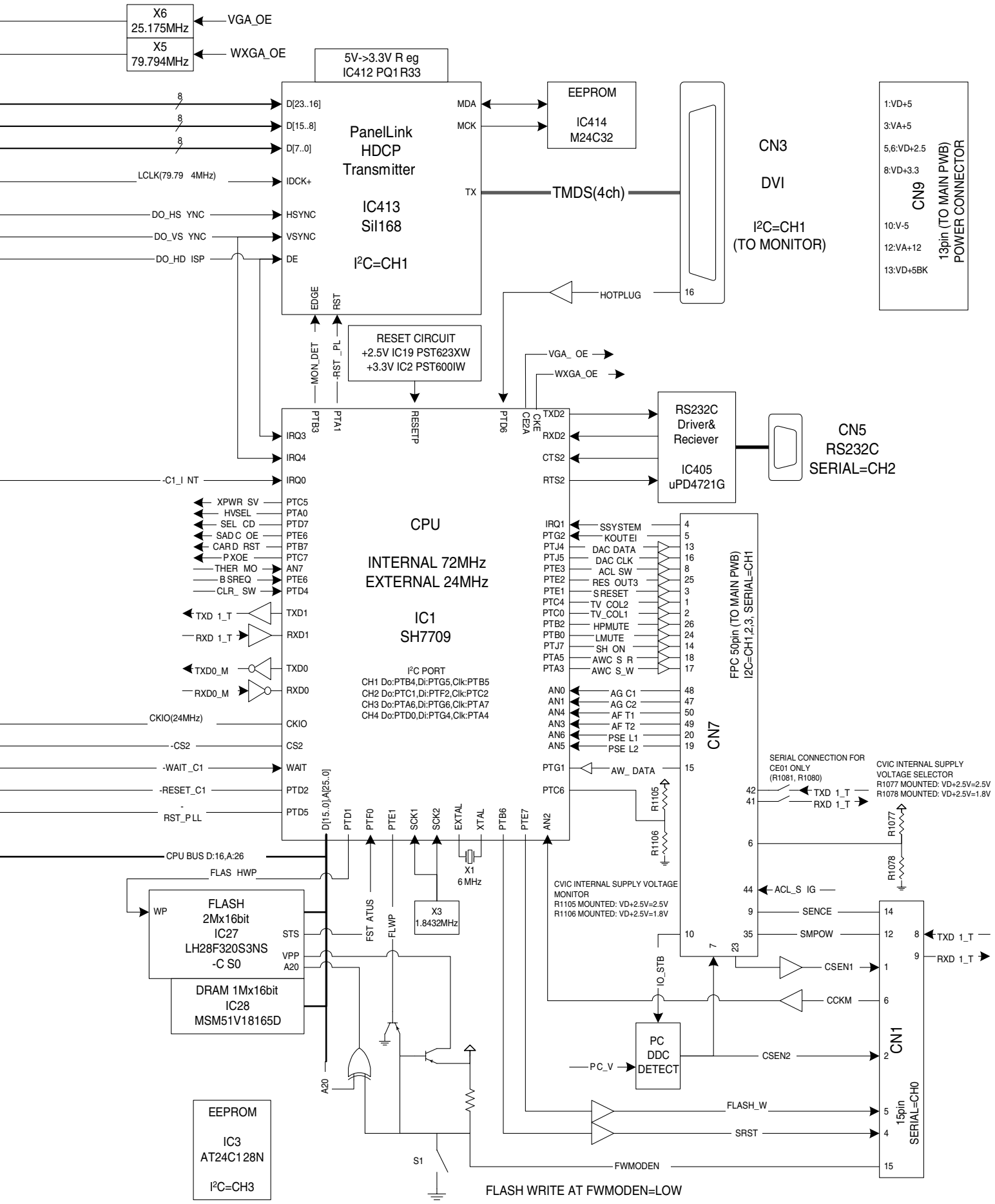
3.4 POWER BLOCK DIAGRAM




PRIMARY
SECONDARY
T701
D710
L704
CN703
M+10V
R715
//716
R717
Q703
2SK2700
PC704B
PC123FY
D717
R721
C717
D704
R720
Q709
DTA143ESA
Q708
DTC124ESA
R739
R740
C732
R718
D703
R726
R719
Q704
2SC1741AS
C716
R725
D706
R724
R722
C708
PC701B
PC123FY
D706
C718
D711
(12V)
C723
//724
//725
R730
R731
R732
C726
R733
R734
//735
C723
R729
IC703
TA7643IS
GND
PC701A
PC123FY
CSENI(SEV)
PC704A
PC123FY
T702
D713
L705
BU5V
IC702 TNY264P
POWER CONTROLLER
REGULATOR
5.8V
DRAIN
5
LINE UNDER-VOLTAGE
50μA
5.8V
4.8V
BYPASS PIN
UNDER-VOLTAGE
AUTO-
RESTART
COUNTER
RESET
CURRENT
LIMIT
STATE
MACHINE
VI LIMIT
CURRENT LIMIT
COMPARATOR
JITTER
CLOCK
DC MAX
OSCILLATOR
THERMAL
SHUTDOWN
6.3V
S Q
R Q
LEADING
EDGE
BLANKING
SOURCE 2.3
C728
R736
R732
PC703A
PC123FY
D715
(4.3V)
D714
R738
PC702A
PC123FY
Q706
PS-ON SW.
Q705
RELAY
DRIVER
PS-ON
GND
A
B

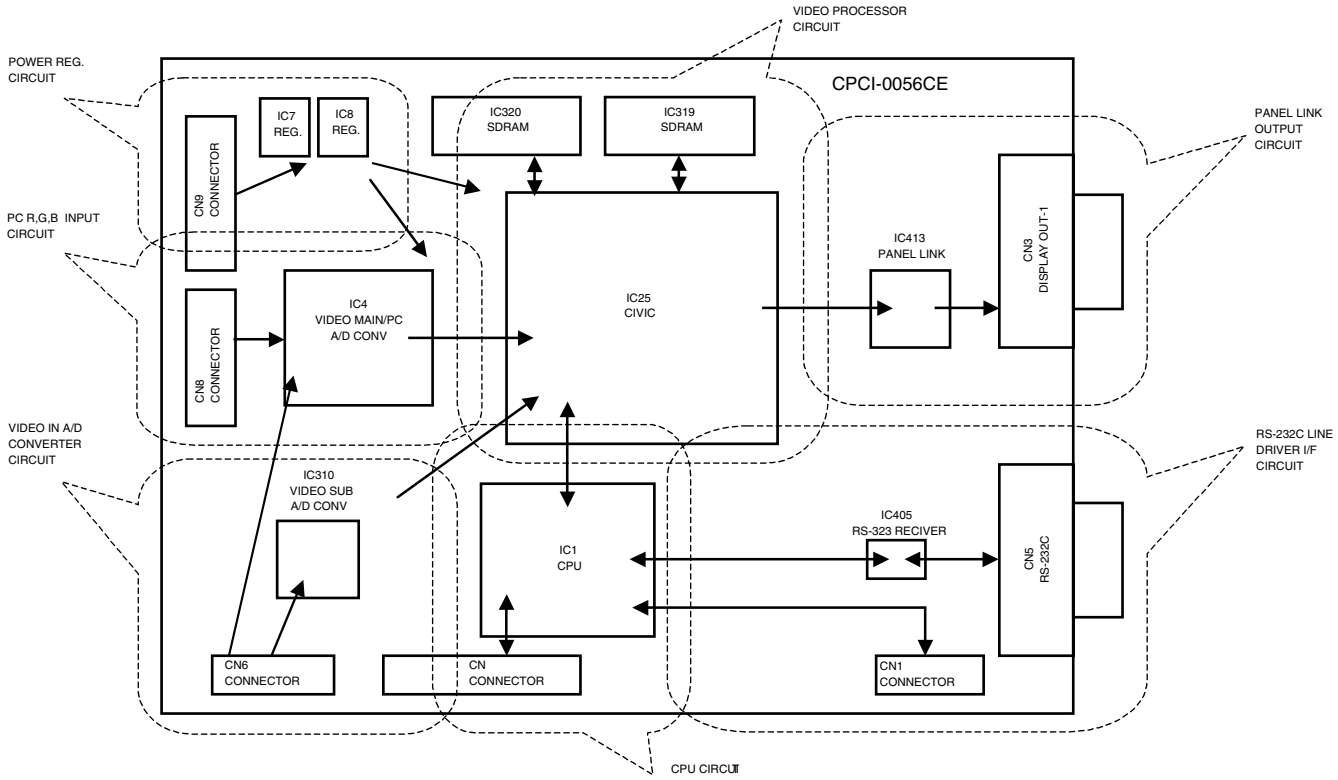
3.5 PC/IF BLOCK DIAGRAM



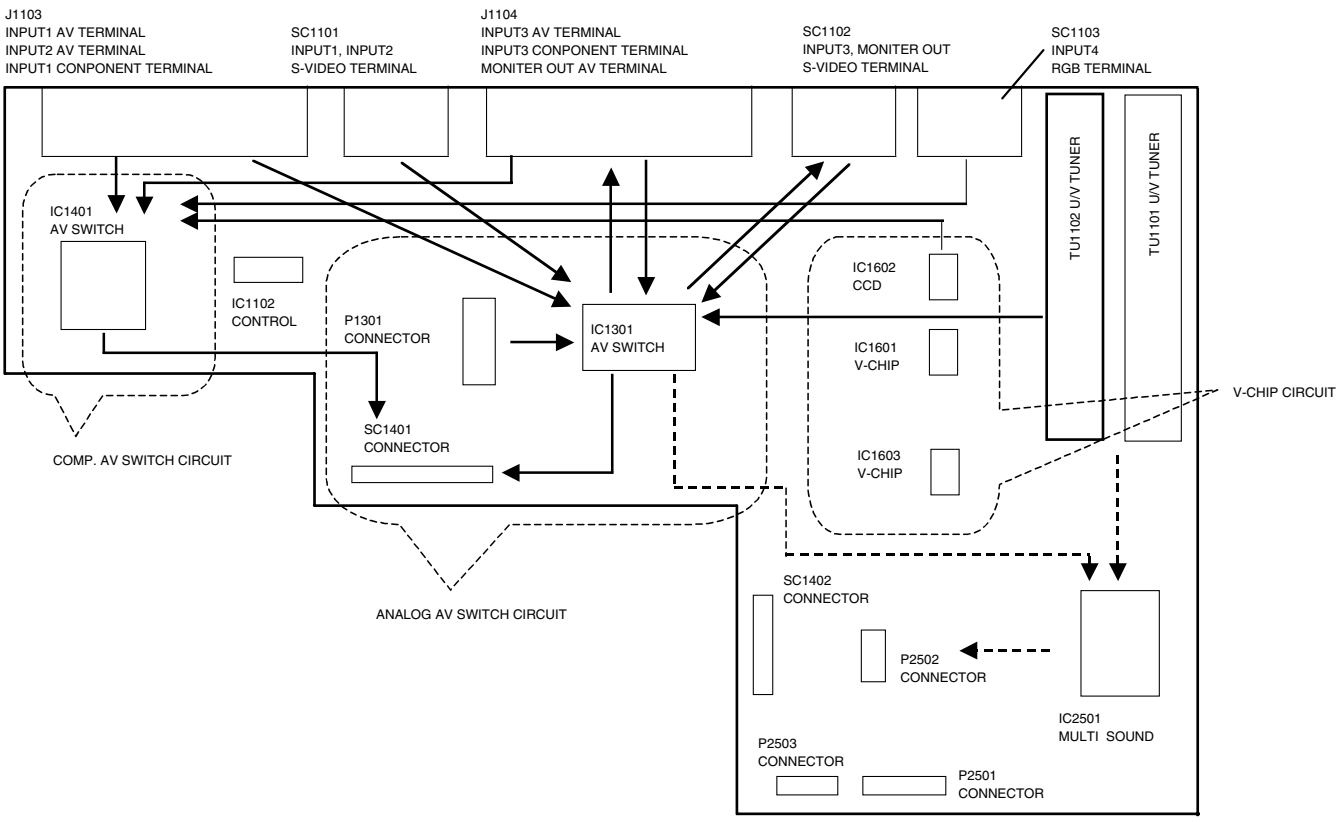

X6
25.175MHz
VGA_OE
X5
79.794MHz
WXGA_OE
5V->3.3V R eg
IC412 PQ1R33
PanelLink
HDCP
Transmitter
IC413
SiI168
I²C=CH1
D[23..16]
D[15..8]
D[7..0]
LCLK(79.79 4MHz)
DO_HS YNC
DO_VS YNC
DO_HD ISP
IDCK+
HSYNC
VSYNC
DE
MDA
MCK
TX
EEPROM
IC414
M24C32
TMDS(4ch)
CN3
DVI
I²C=CH1
(TO MONITOR)
CN9
1:VD+5
3:VA+5
5,6:VD+2.5
8:VD+3.3
10:V-5
12:VA+12
13:VD+5BK
13pin (TO MAIN PWB)
POWER CONNECTOR
HOTPLUG
16
EDGE
RST
MON_DET
-RST_PL
RESET CIRCUIT
+2.5V IC19 PST623XW
+3.3V IC2 PST600IW
VGA_ OE
WXGA_OE
RESETP
PTB3
PTA1
PTD6
CKE
CE2A
TXD2
RXD2
CTS2
RTS2
RS232C
Driver&
Reciever
IC405
uPD4721G
CN5
RS232C
SERIAL=CH2
IRQ3
IRQ4
IRQ0
-C1_I NT
CPU
INTERNAL 72MHz
EXTERNAL 24MHz
IC1
SH7709
XPWR SV
HVSEL
SEL CD
SADC OE
CARD RST
PXOE
THER MO
BSREQ
CLR_ SW
PTC5
PTA0
PTD7
PTE6
PTB7
PTC7
AN7
PTE6
PTD4
TXD1
RXD1
TXD0
RXD0
TXD 1_T
RXD 1_T
TXD0_M
RXD0_M
I²C PORT
CH1 Do:PTB4,Di:PTG5,Clk:PTB5
CH2 Do:PTC1,Di:PTF2,Clk:PTC2
CH3 Do:PTA6,Di:PTG6,Clk:PTA7
CH4 Do:PTD0,Di:PTG4,Clk:PTA4
CKIO(24MHz)
-CS2
-WAIT_C1
-RESET_C1
-
RST_PLL
CKIO
CS2
WAIT
PTD2
PTD5
CPU BUS D:16,A:26
FLAS HWP
D[15..0],A[25..0]
PTD1
PTF0
PTE1
SCK1
SCK2
EXTAL
XTAL
PTB6
PTE7
AN2
X1
6 MHz
X3
1.8432MHz
FST ATUS
FLWP
FLASH
2Mx16bit
IC27
LH28F320S3NS
-C S0
WP
STS
VPP
A20
DRAM 1Mx16bit
IC28
MSM51V18165D
A20
EEPROM
IC3
AT24C128N
I²C=CH3
S1
IRQ1
PTG2
PTJ4
PTJ5
PTE3
PTE2
PTE1
PTC4
PTC0
PTB2
PTB0
PTJ7
PTA5
PTA3
SSYSTEM
KOUTEI
DAC DATA
DAC CLK
ACL SW
RES OUT3
SRESET
TV_COL2
TV_COL1
HPMUTE
LMUTE
SH_ON
AWC S_R
AWC S_W
AN0
AN1
AN4
AN3
AN6
AN5
AG C1
AG C2
AF T1
AF T2
PSE L1
PSE L2
PTG1
AW_ DATA
PTC6
CN7
FPC 50pin (TO MAIN PWB)
I2C=CH1,2,3, SERIAL=CH1
R1105
R1106
R1077
R1078
SERIAL CONNECTION FOR
CE01 ONLY
(R1081, R1080)
CVIC INTERNAL SUPPLY
VOLTAGE SELECTOR
R1077 MOUNTED: VD+2.5V=2.5V
R1078 MOUNTED: VD+2.5V=1.8V
CVIC INTERNAL SUPPLY VOLTAGE
MONITOR
R1105 MOUNTED: VD+2.5V=2.5V
R1106 MOUNTED: VD+2.5V=1.8V
ACL_S IG
SENCE
SMPOW
IO_STB
CSEN1
CCKM
CSEN2
PC_V
PC
DDC
DETECT
CN1
15pin
SERIAL=CH0
FLASH_W
SRST
FWMODEN
FLASH WRITE AT FWMODEN=LOW

3.6 PRINTED WIRING BOARD BLOCK DIAGRAM

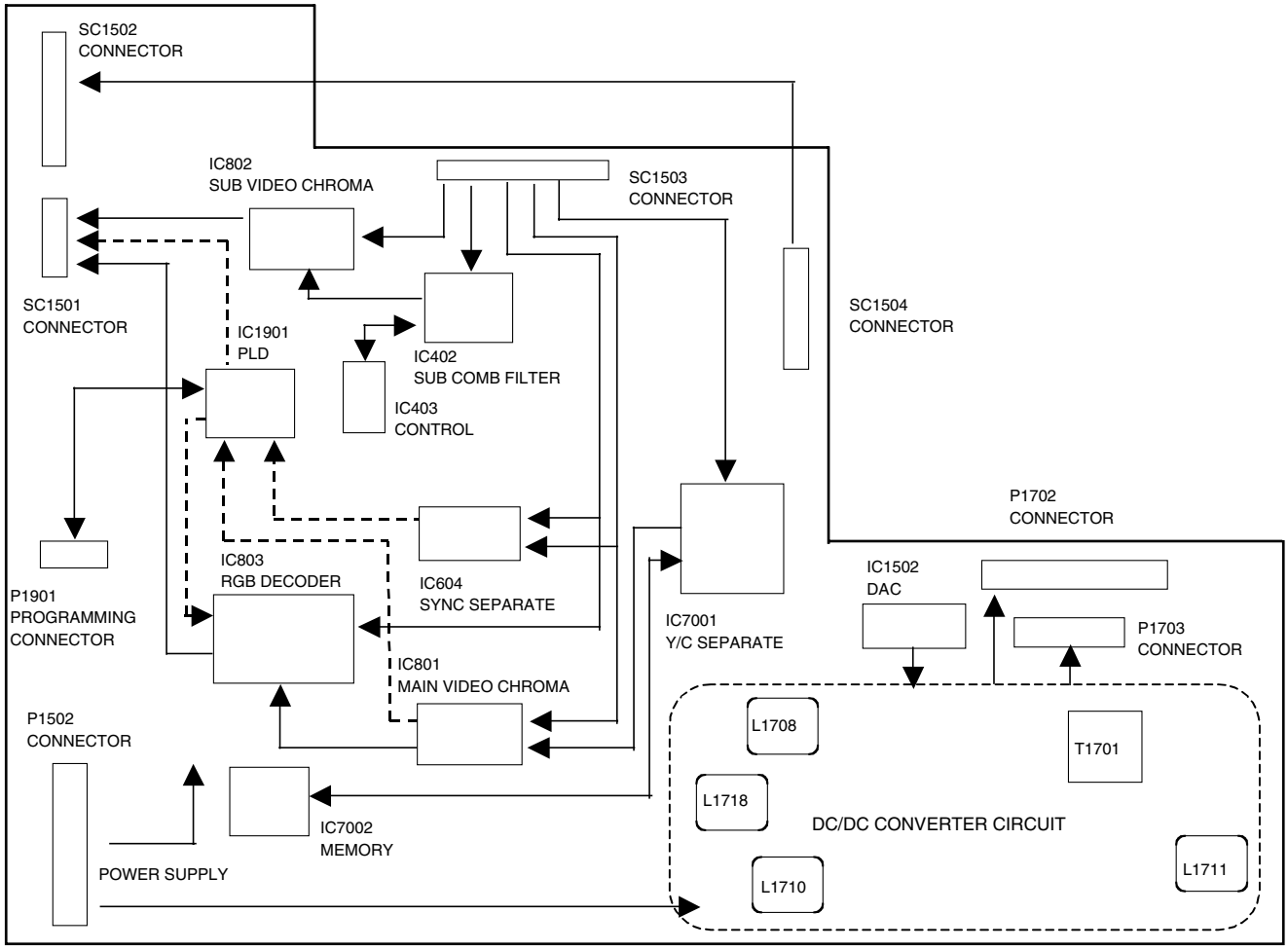
F PC/IF UNIT



C AV UNIT



A MAIN UNIT


SC1502
CONNECTOR
IC802
SUB VIDEO CHROMA
SC1503
CONNECTOR
SC1501
CONNECTOR
IC1901
PLD
IC402
SUB COMB FILTER
IC403
CONTROL
SC1504
CONNECTOR
P1702
CONNECTOR
P1901
PROGRAMMING
CONNECTOR
IC803
RGB DECODER
IC604
SYNC SEPARATE
IC7001
Y/C SEPARATE
IC1502
DAC
P1703
CONNECTOR
IC801
MAIN VIDEO CHROMA
P1502
CONNECTOR
L1708
T1701
L1718
DC/DC CONVERTER CIRCUIT
L1711
L1710
IC7002
MEMORY
POWER SUPPLY

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the color bar signal of color bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 k /V tester

WAVEFORM MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the color density, lightness and color hue are set to the center position, and the signal of color bar generator for service is observed to get waveform.
2. ◯▶ indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance " " is omitted. (K=k =1000 , M=M).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ : Cement
   Ⓢ: Oxide Film Ⓣ : Special
   Ⓝ: Metal Coating

CAPACITOR

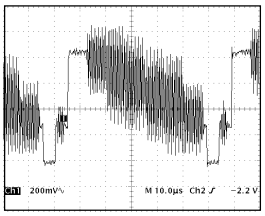
1. All capacitors are mF, unless otherwise noted. (P=pF=mmF).
2. All capacitors are Ceramic type, unless otherwise noted.
   (ML) : Mylar (TA) : Tantalum
   (PF) : Polypro Film (ST) : Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

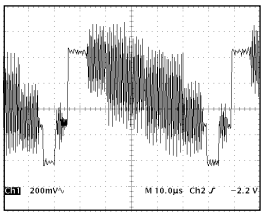
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH " ⚠ " ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

WAVEFORMS

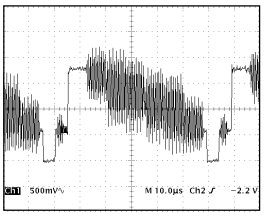
① IC1301 63-pin
V: 200mV/div H: 10µsec/div



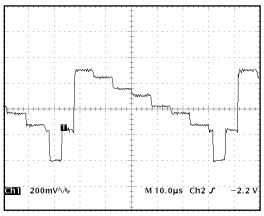
② IC1301 60-pin
V: 200mV/div H: 10µsec/div



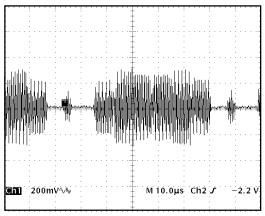
③ IC1301 56-pin
V: 500mV/div H: 10µsec/div



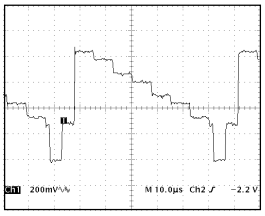
④ TP7004
V: 200mV/div H: 10µsec/div



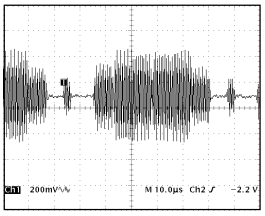
⑤ TP7003
V: 200mV/div H: 10µsec/div



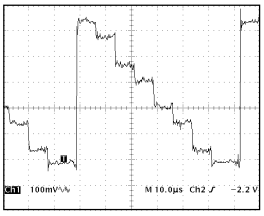
⑥ TP812
V: 200mV/div H: 10µsec/div



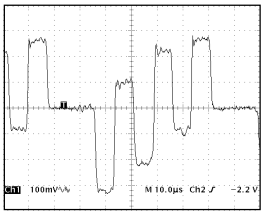
⑦ TP603
V: 200mV/div H: 10µsec/div



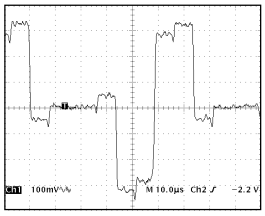
⑧ TP803
V: 100mV/div H: 10µsec/div



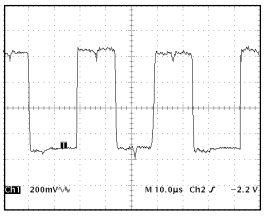
⑨ TP802
V: 100mV/div H: 10µsec/div



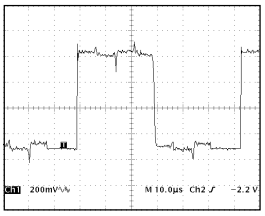
⑩ TP801
V: 100mV/div H: 10µsec/div



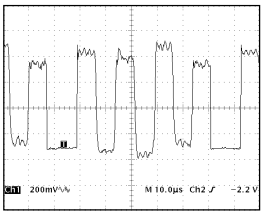
⑪ TP809
V: 200mV/div H: 10µsec/div



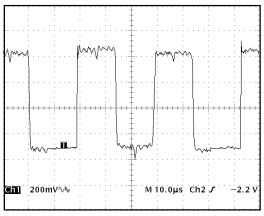
⑫ TP808
V: 200mV/div H: 10µsec/div



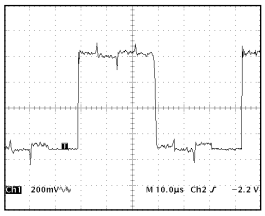
⑬ TP807
V: 200mV/div H: 10µsec/div



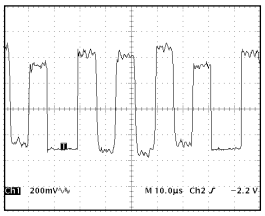
⑭ IC810 13-pin
V: 200mV/div H: 10µsec/div



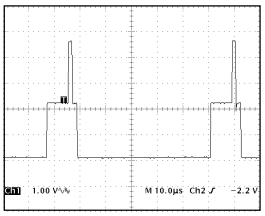
⑮ IC810 11-pin
V: 200mV/div H: 10µsec/div



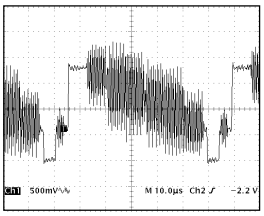
⑯ IC810 10-pin
V: 200mV/div H: 10µsec/div



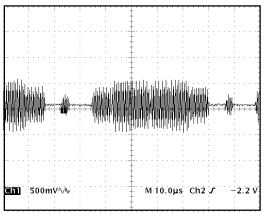
⑰ IC803 31-pin
V: 1V/div H: 10µsec/div



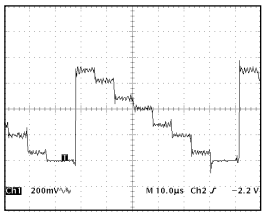
⑱ IC1301 44-pin
V: 500mV/div H: 10µsec/div



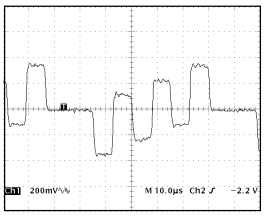
⑲ TP410
V: 500mV/div H: 10µsec/div



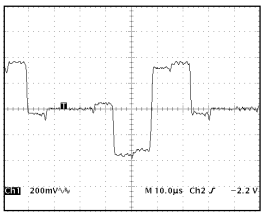
⑳ IC802 21-pin
V: 200mV/div H: 10µsec/div



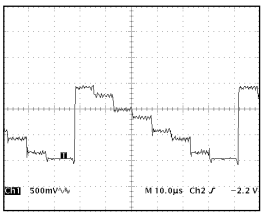
㉑ IC802 22-pin
V: 200mV/div H: 10µsec/div



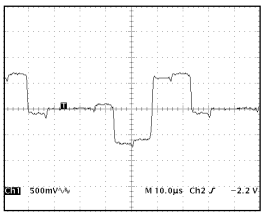
㉒ IC802 23-pin
V: 200mV/div H: 10µsec/div



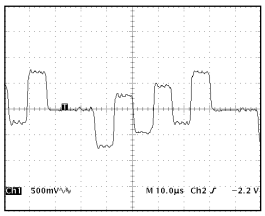
㉓ IC804 13-pin
V: 500mV/div H: 10µsec/div



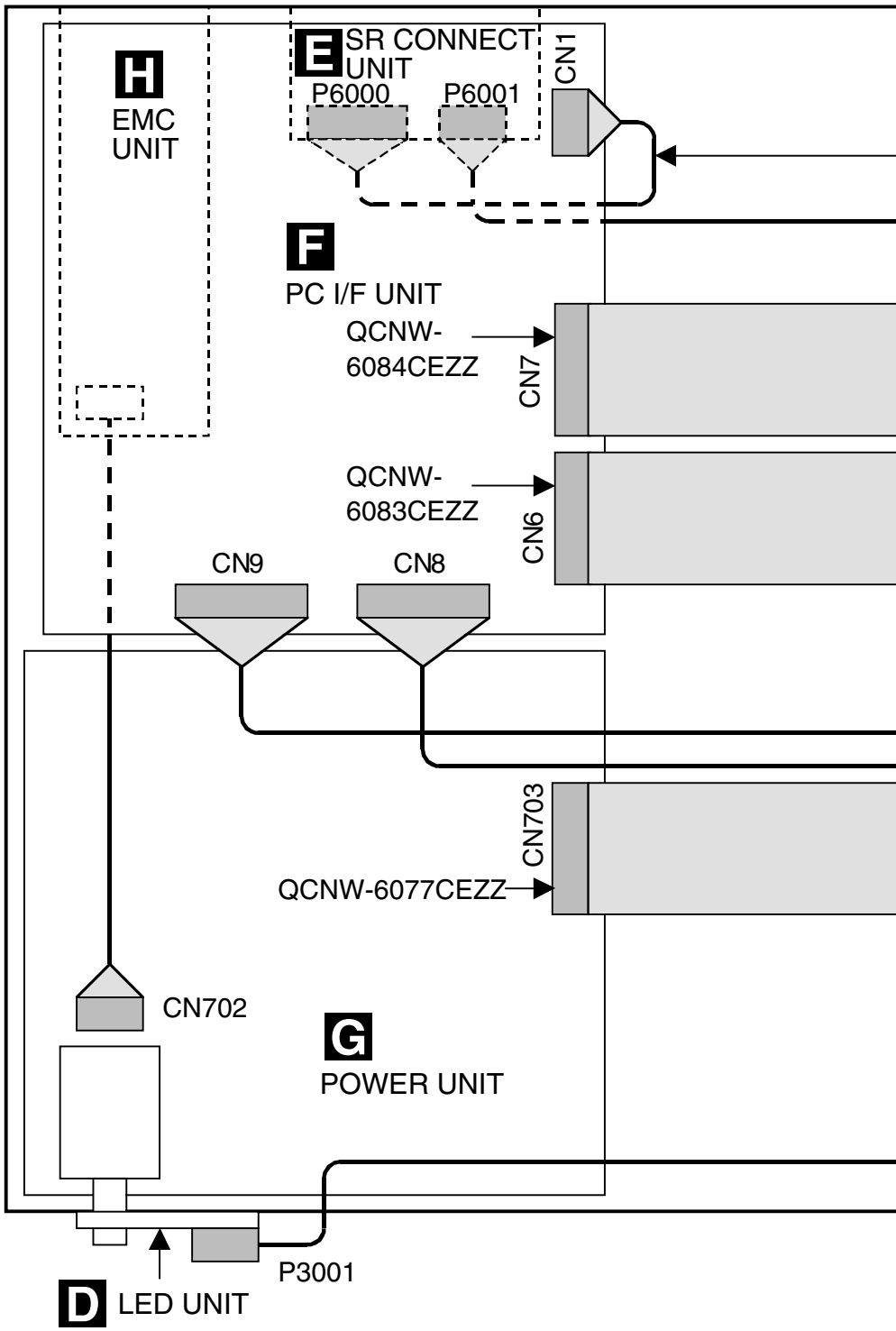
㉔ IC804 11-pin
V: 500mV/div H: 10µsec/div



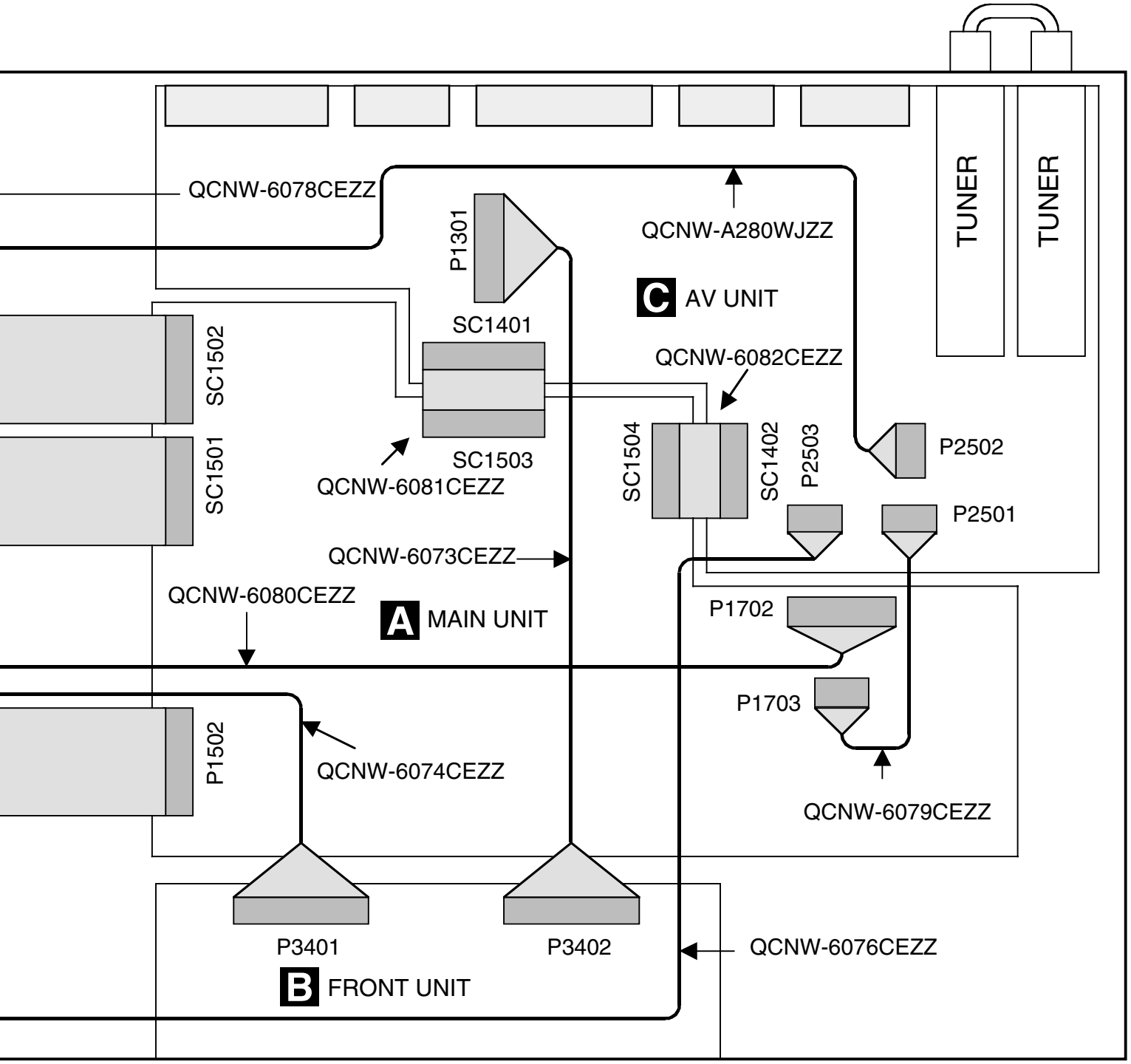
㉕ IC804 10-pin
V: 500mV/div H: 10µsec/div



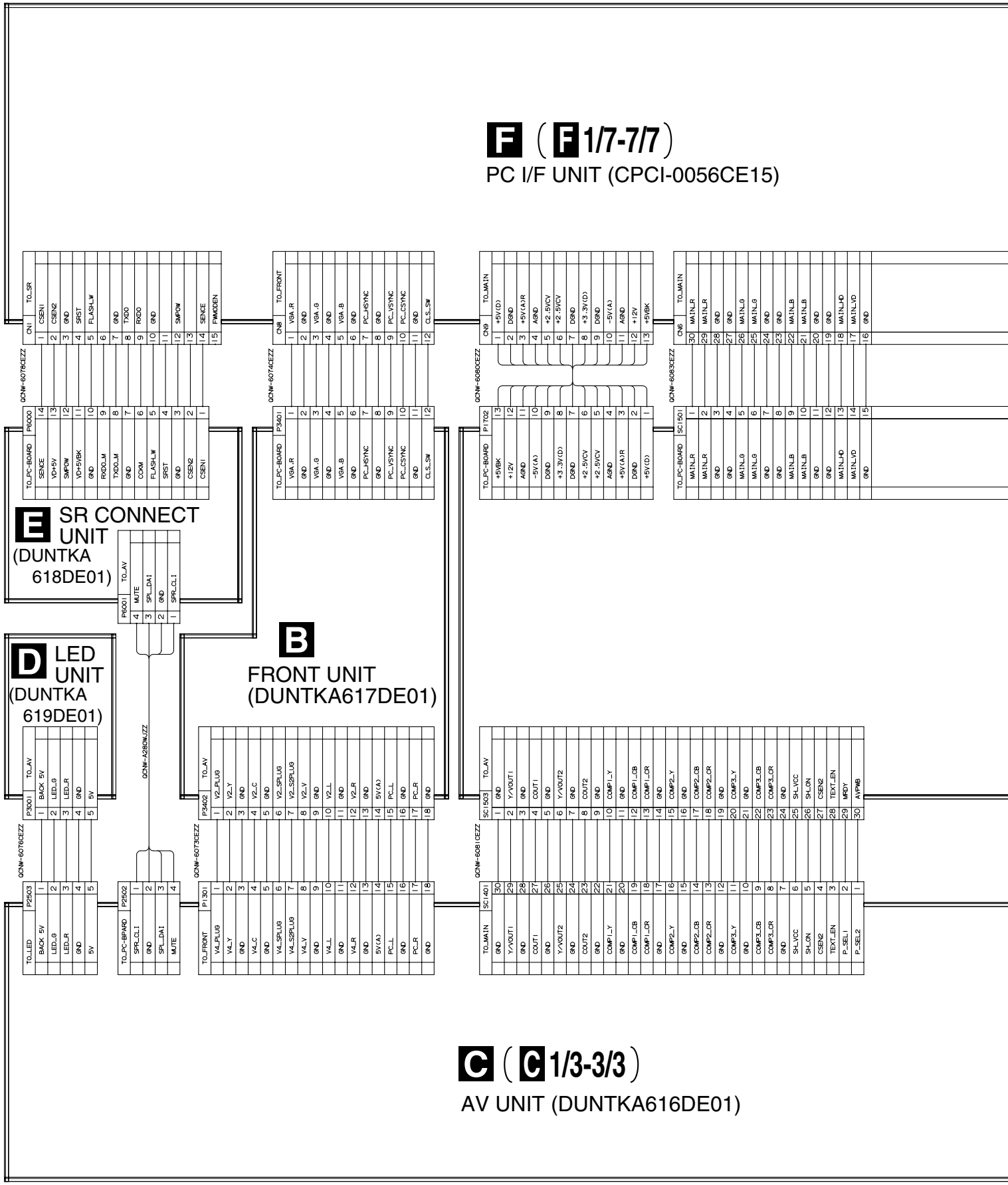
3.7 OVERALL WIRING DIAGRAM (1)

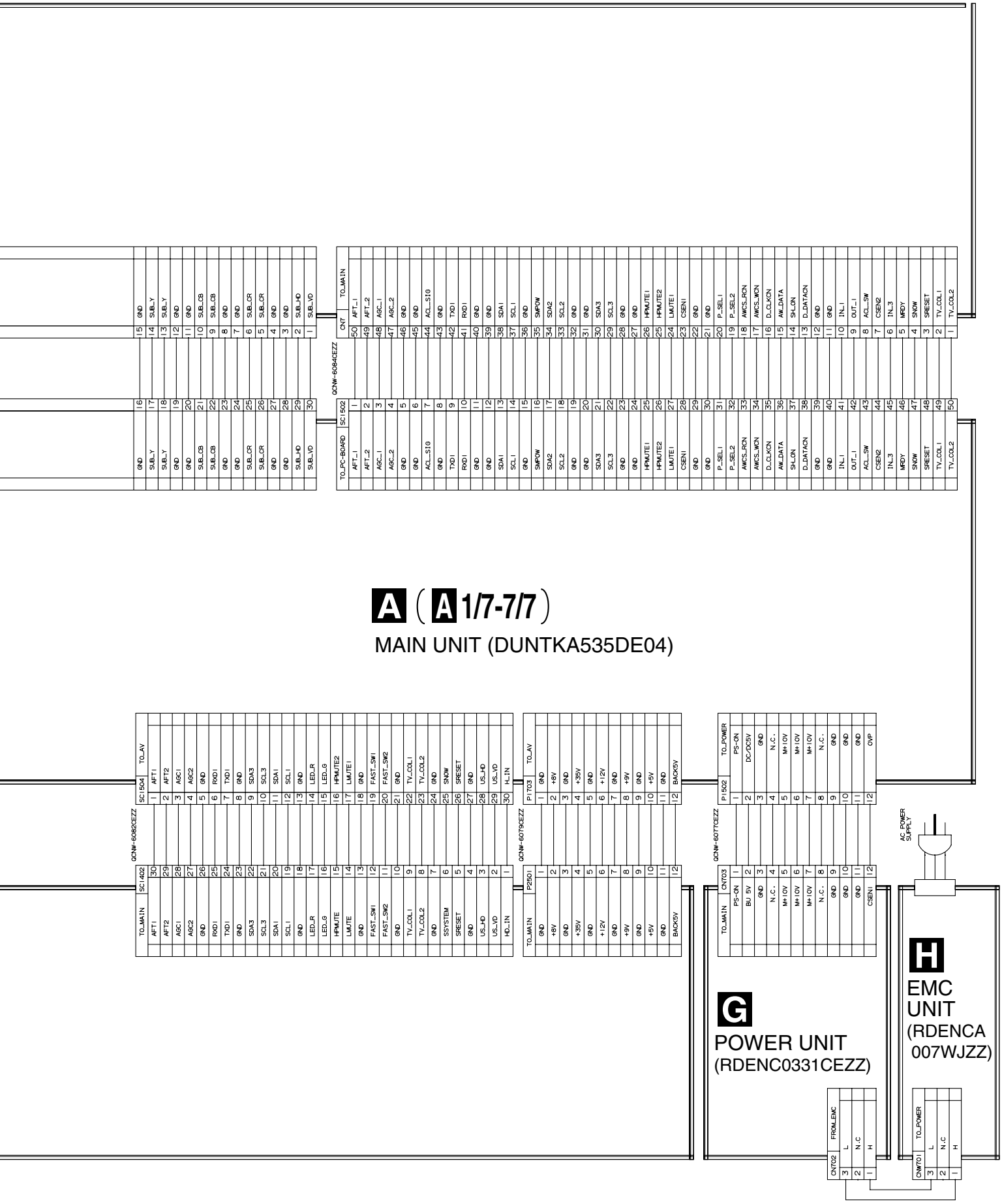


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

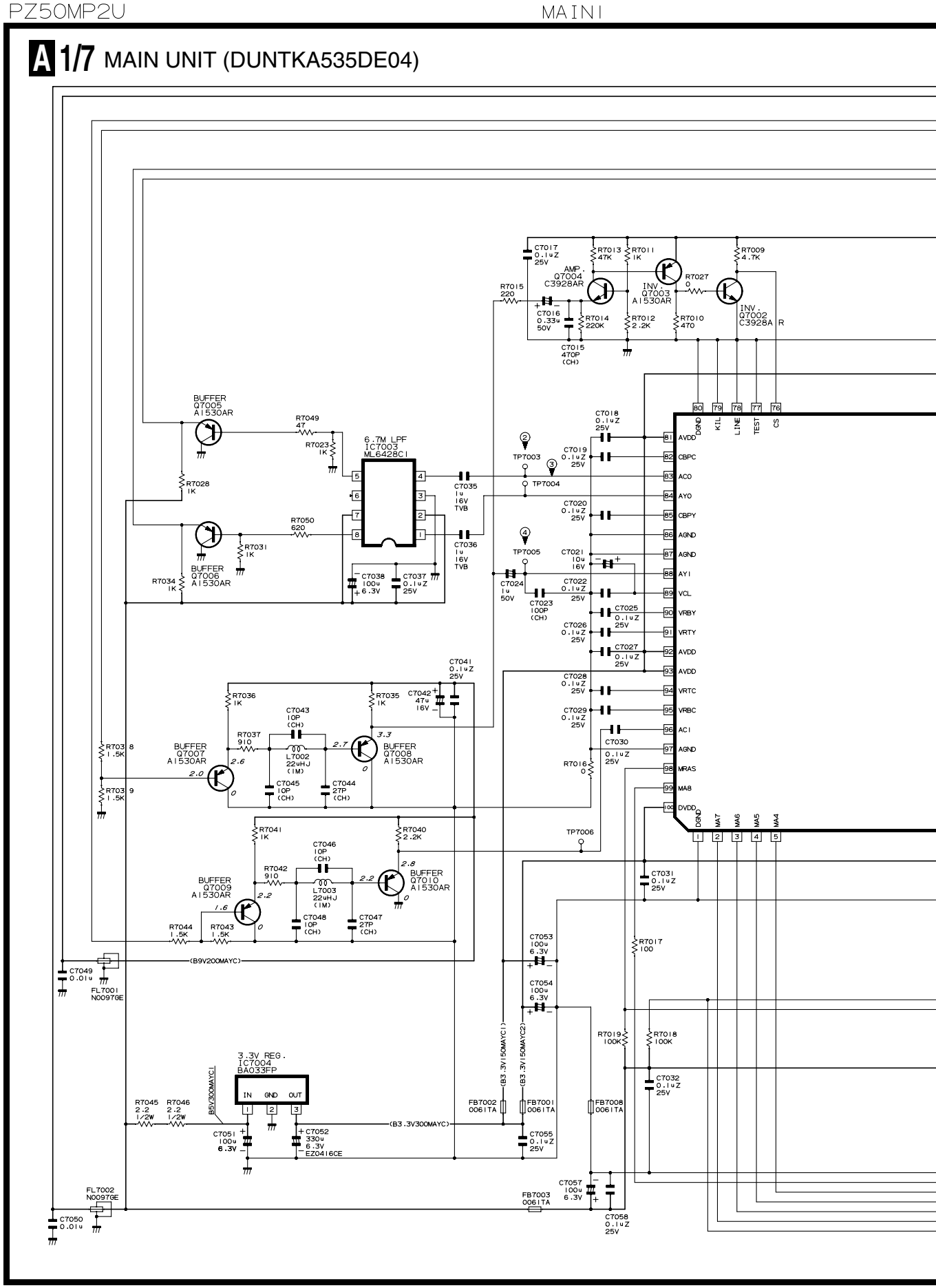


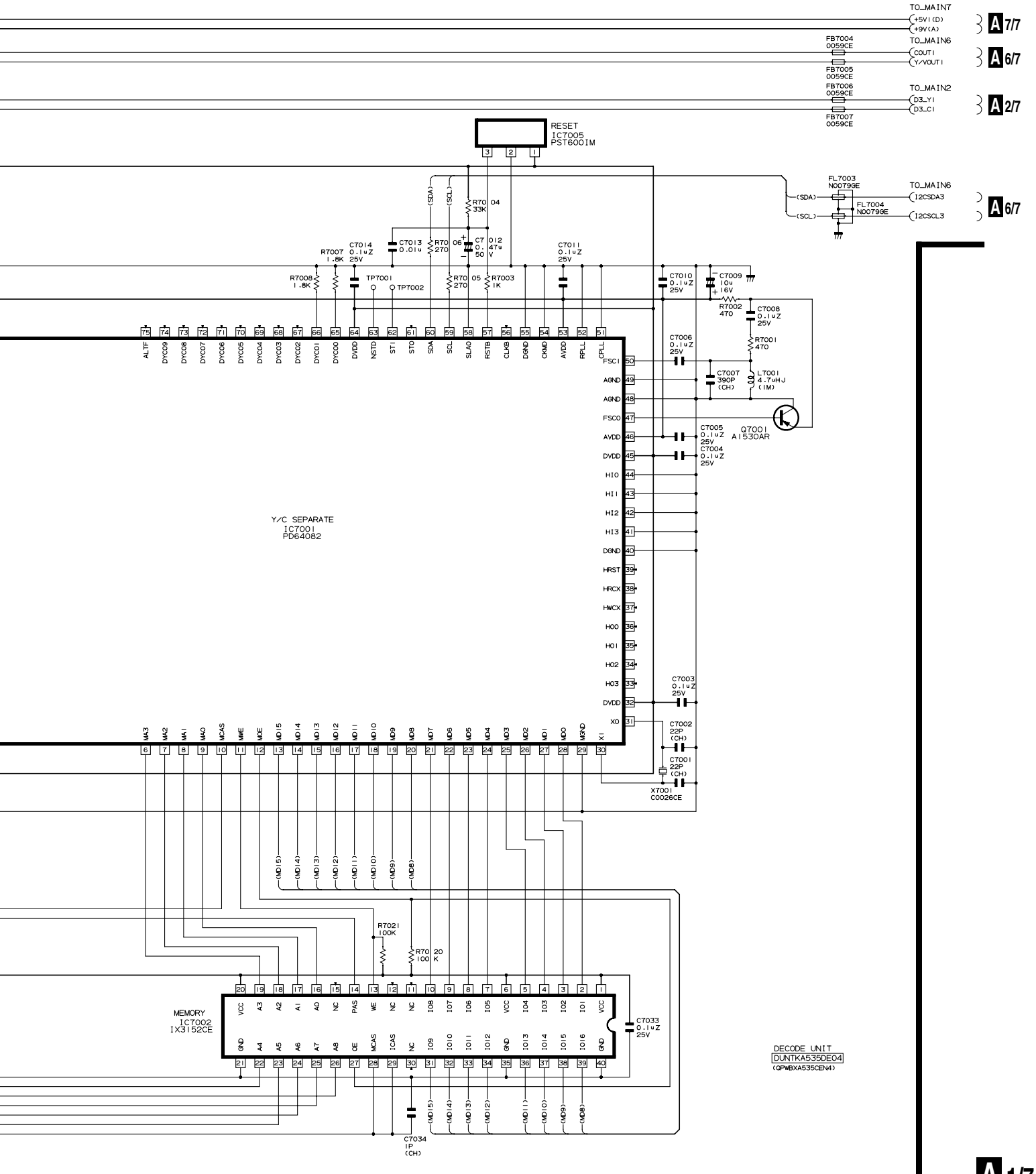
3.8 OVERALL WIRING DIAGRAM (2)


F (F 1/7-7/7)
PC I/F UNIT (CPCI-0056CE15)
E SR CONNECT UNIT (DUNTKA 618DE01)
D LED UNIT (DUNTKA 619DE01)
B FRONT UNIT (DUNTKA617DE01)
C (C 1/3-3/3)
AV UNIT (DUNTKA616DE01)

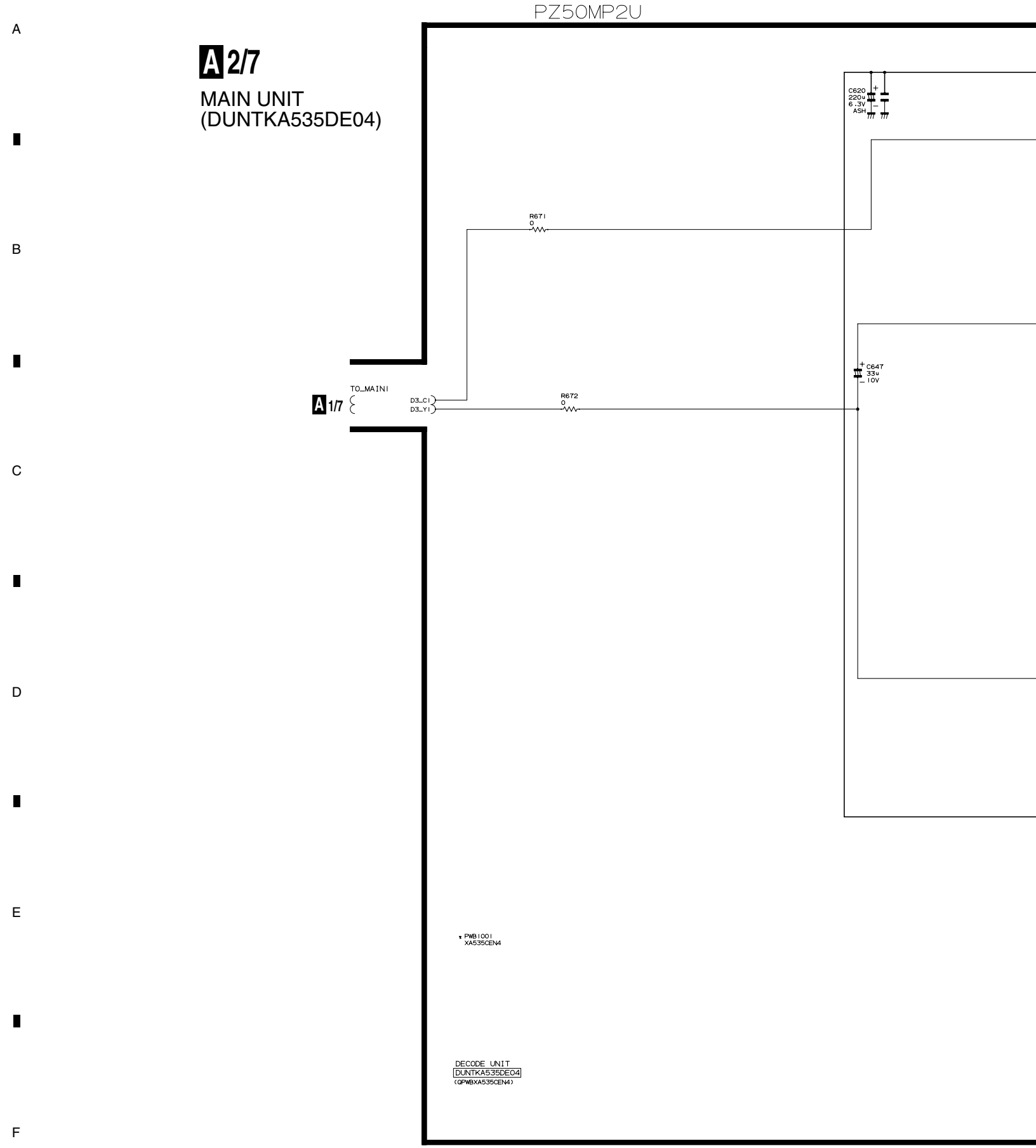

A (A 1/7-7/7)
MAIN UNIT (DUNTKA535DE04)
G
POWER UNIT
(RDENC0331CEZZ)
H
EMC
UNIT
(RDENCA
007WJZZ)
AC POWER SUPPLY
QCNW-6084CEZZ
QCNW-6082CEZZ
QCNW-6079CEZZ
QCNW-6077CEZZ
TO_MAIN
TO_PC-BOARD
TO_AV
TO_POWER
FROM_EMC

3.9 MAIN UNIT (1/7)

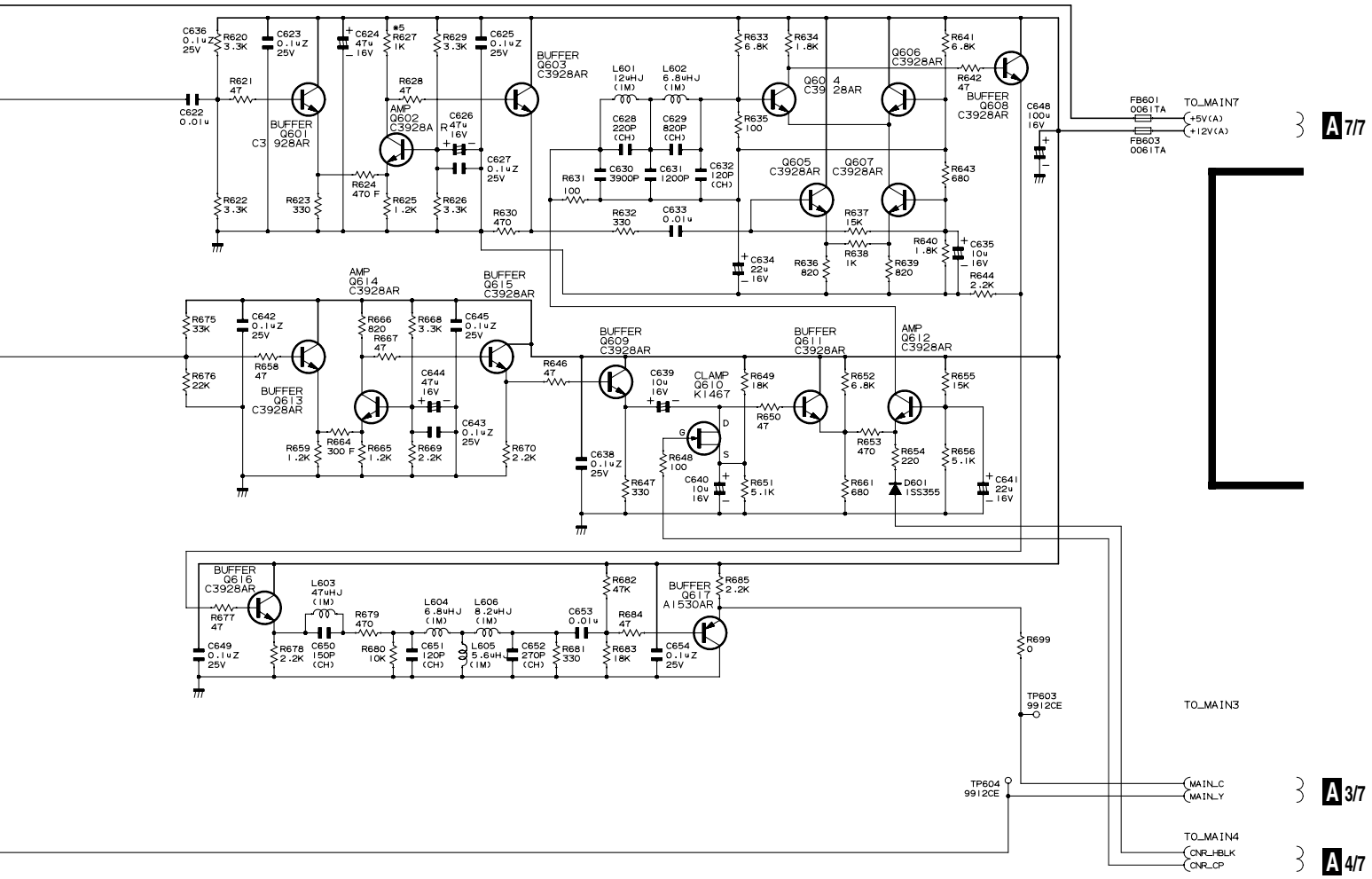


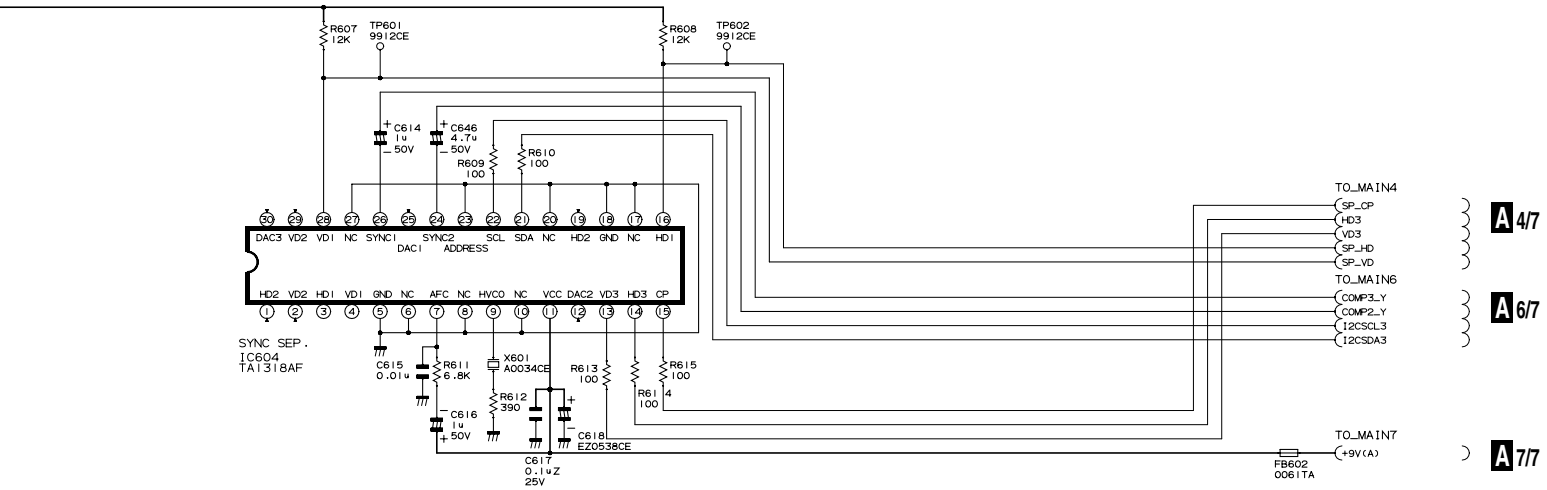

TO_MAIN7
+5V1(D)
+9V(A)
A 7/7
FB7004 0059CE
TO_MAIN6
COUT1
Y/VOUT1
A 6/7
FB7005 0059CE
FB7006 0059CE
TO_MAIN2
D3_Y1
D3_C1
A 2/7
FB7007 0059CE
RESET
IC7005
PST600IM
FL7003 N00796E
FL7004 N00796E
TO_MAIN6
I2CSDA3
I2CSCL3
A 6/7
R7004 33K
R7006 270
C7012 0.47u 50V
C7013 0.01u
C7014 0.1uZ 25V
R7007 1.8K
R7008 1.8K
TP7001
TP7002
R7005 270
R7003 1K
C7011 0.1uZ 25V
C7010 0.1uZ 25V
C7009 10u 16V
R7002 470
C7008 0.1uZ 25V
R7001 470
C7006 0.1uZ 25V
C7007 390P (CH)
L7001 4.7uHJ (1M)
Q7001 A1530AR
C7005 0.1uZ 25V
C7004 0.1uZ 25V
Y/C SEPARATE
IC7001
PD64082
C7003 0.1uZ 25V
C7002 22P (CH)
C7001 22P (CH)
X7001 C0026CE
R7021 100K
R7020 100 K
MEMORY
IC7002
IX3152CE
C7033 0.1uZ 25V
C7034 1P (CH)
DECODE UNIT
DUNTKA535DE04
(QPWBXA535CEN4)
A 1/7

3.10 MAIN UNIT (2/7)



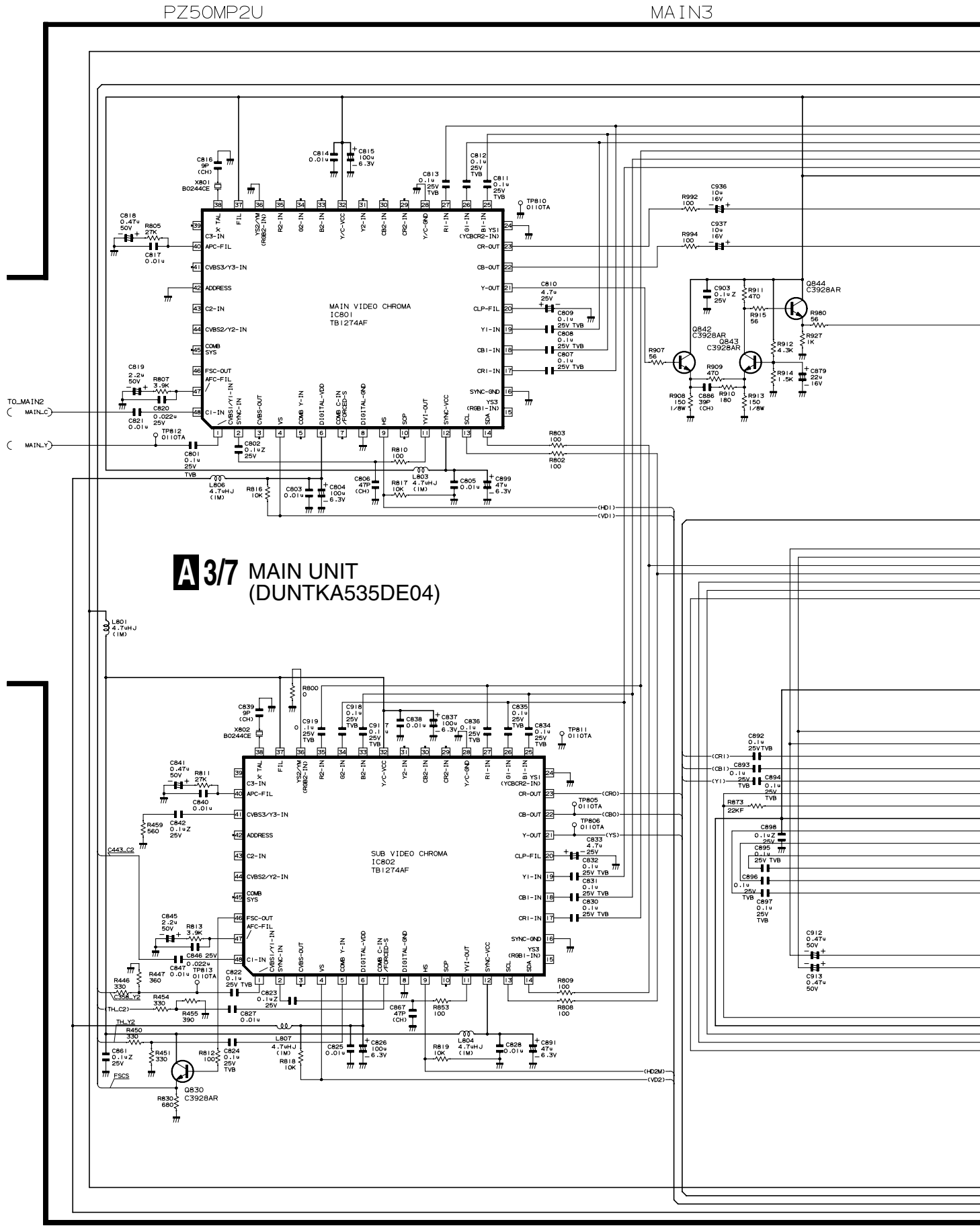
MAIN2

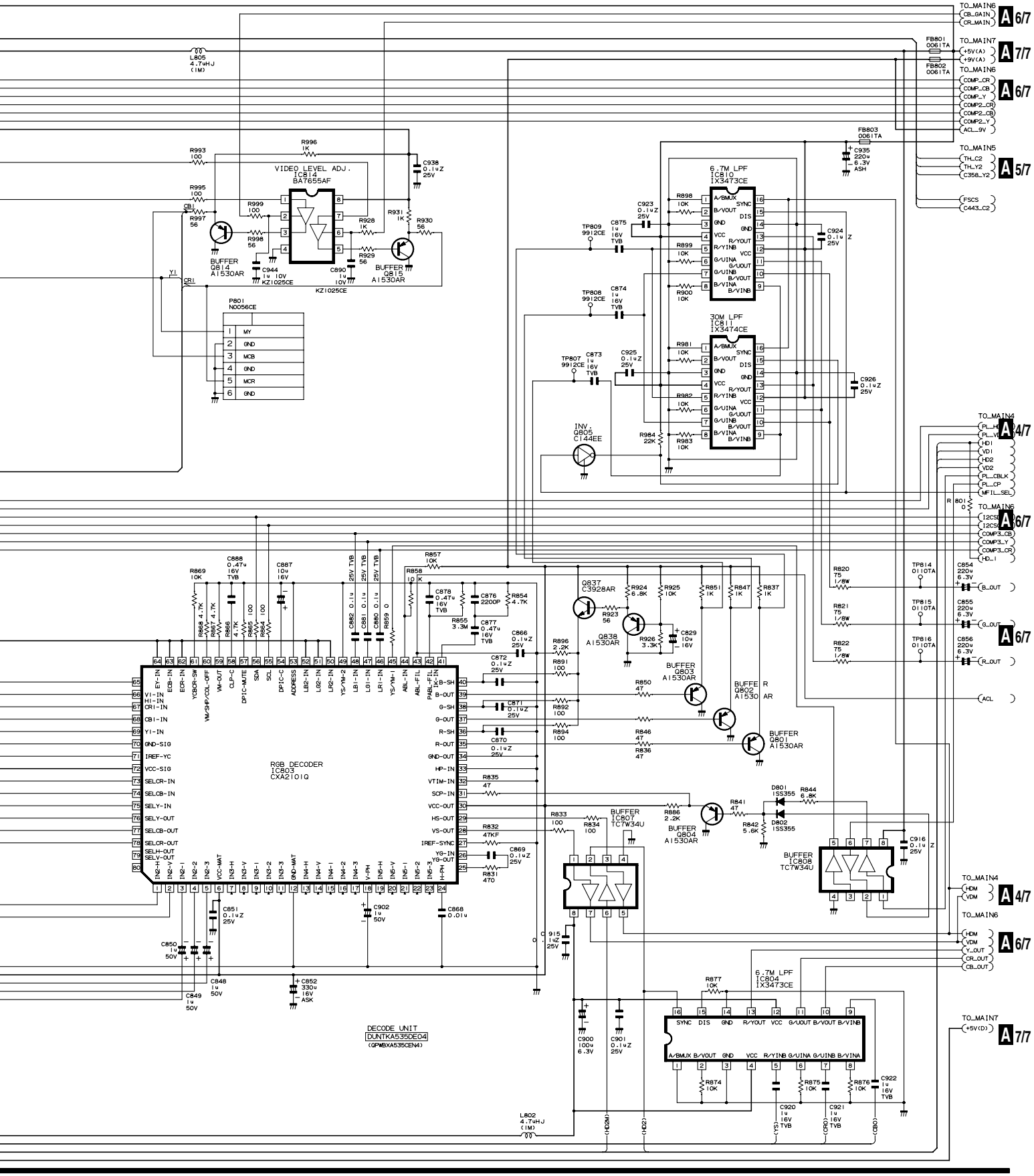

C636 0.1u 25V
R620 3.3K
C623 0.1uZ 25V
C624 47u 16V
*5
R627 1K
R629 3.3K
C625 0.1uZ 25V
BUFFER Q603 C3928AR
L601 12uHJ (1M)
L602 6.8uHJ (1M)
R633 6.8K
R634 1.8K
Q606 C3928AR
R641 6.8K
R642 47
BUFFER Q608 C3928AR
C648 100u 16V
FB601 0061TA
TO_MAIN7
+5V(A)
+12V(A)
FB603 0061TA
A 7/7
C622 0.01u
R621 47
BUFFER Q601 C3928AR
AMP Q602 C3928A
R628 47
C626 R47u 16V
C627 0.1uZ 25V
R624 470 F
R622 3.3K
R623 330
R625 1.2K
R626 3.3K
R630 470
C628 220P (CH)
C629 820P (CH)
C630 3900P
C631 1200P
C632 120P (CH)
R631 100
R632 330
C633 0.01u
R635 100
Q605 C3928AR
Q607 C3928AR
R643 680
R637 15K
R638 1K
R636 820
R639 820
R640 1.8K
C635 10u 16V
C634 22u 16V
R644 2.2K
AMP Q614 C3928AR
BUFFER Q615 C3928AR
R675 33K
C642 0.1uZ 25V
R666 820
R667 47
R668 3.3K
C645 0.1uZ 25V
R658 47
R676 22K
BUFFER Q613 C3928AR
C644 47u 16V
C643 0.1uZ 25V
R659 1.2K
R664 300 F
R665 1.2K
R669 2.2K
R670 2.2K
R646 47
BUFFER Q609 C3928AR
C639 10u 16V
CLAMP Q610 K1467
R649 18K
BUFFER Q611 C3928AR
AMP Q612 C3928AR
R652 6.8K
R655 15K
R650 47
R653 470
R654 220
R656 5.1K
R648 100
C638 0.1uZ 25V
R647 330
C640 10u 16V
R651 5.1K
R661 680
D601 1SS355
C641 22u 16V
BUFFER Q616 C3928AR
L603 47uHJ (1M)
R679 470
L604 6.8uHJ (1M)
L606 8.2uHJ (1M)
C653 0.01u
R682 47K
R685 2.2K
BUFFER Q617 A1530AR
R677 47
C649 0.1uZ 25V
R678 2.2K
C650 150P (CH)
R680 10K
C651 120P (CH)
L605 5.6uHJ (1M)
C652 270P (CH)
R681 330
R684 47
R683 18K
C654 0.1uZ 25V
R699 0
TP603 9912CE
TO_MAIN3
TP604 9912CE
MAIN_C
MAIN_Y
A 3/7
TO_MAIN4
CNR_HBLK
CNR_CP
A 4/7


R607 12K
TP601 9912CE
R608 12K
TP602 9912CE
C614 1u 50V
C646 4.7u 50V
R609 100
R610 100
DAC3 VD2 VD1 NC SYNC1 SYNC2 SCL SDA NC HD2 GND NC HD1
DAC1 ADDRESS
HD2 VD2 HD1 VD1 GND NC AFC NC HVCO NC VCC DAC2 VD3 HD3 CP
SYNC SEP. IC604 TA1318AF
C615 0.01u
R611 6.8K
X601 A0034CE
R612 390
C616 1u 50V
R613 100
R615 100
R614 100
C618 EZ0538CE
C617 0.1uZ 25V
TO_MAIN4
SP_CP
HD3
VD3
SP_HD
SP_VD
A 4/7
TO_MAIN6
COMP3_Y
COMP2_Y
I2CSCL3
I2CSDA3
A 6/7
TO_MAIN7
+9V(A)
FB602 0061TA
A 7/7

A 2/7

3.11 MAIN UNIT (3/7)

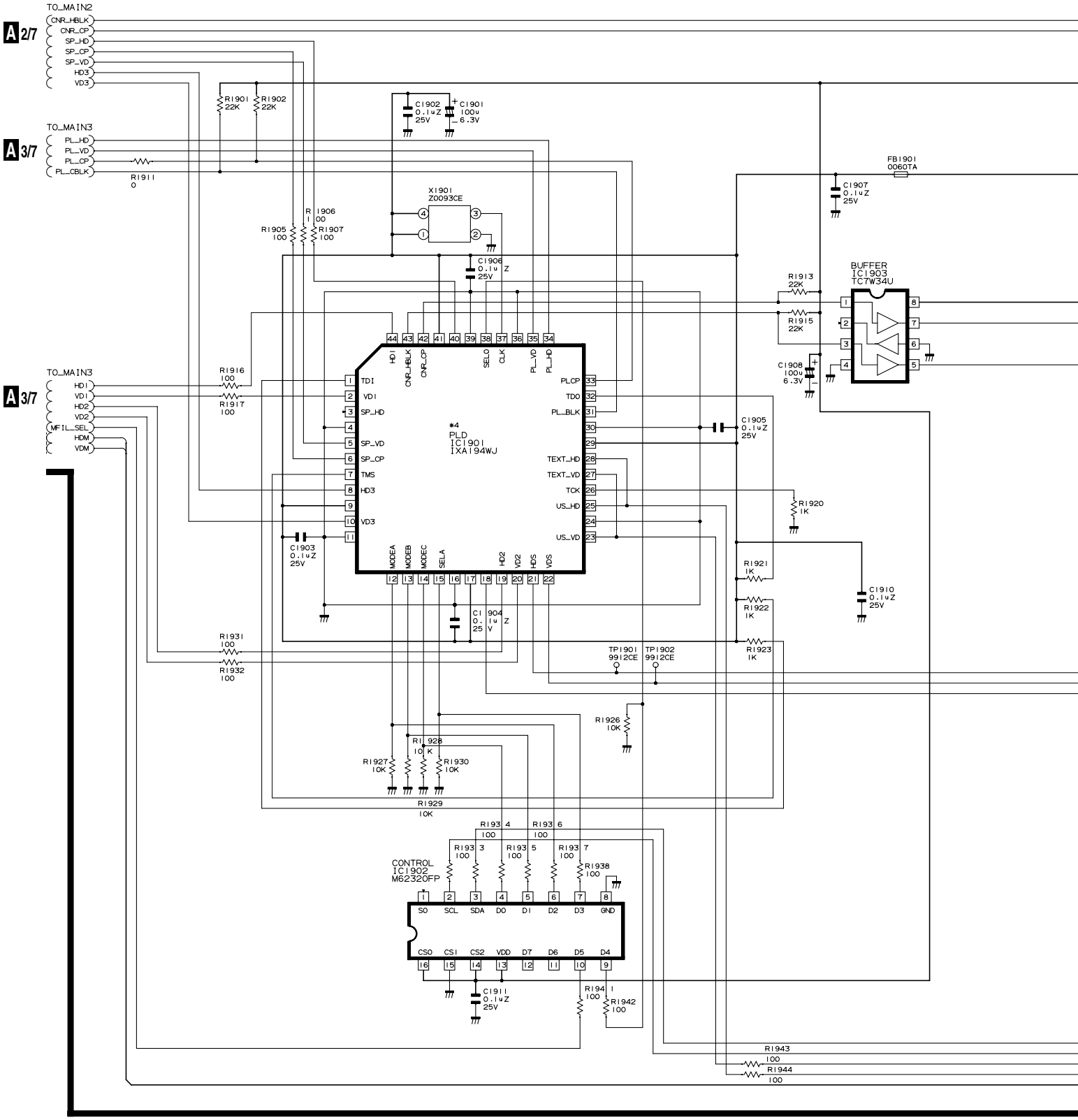


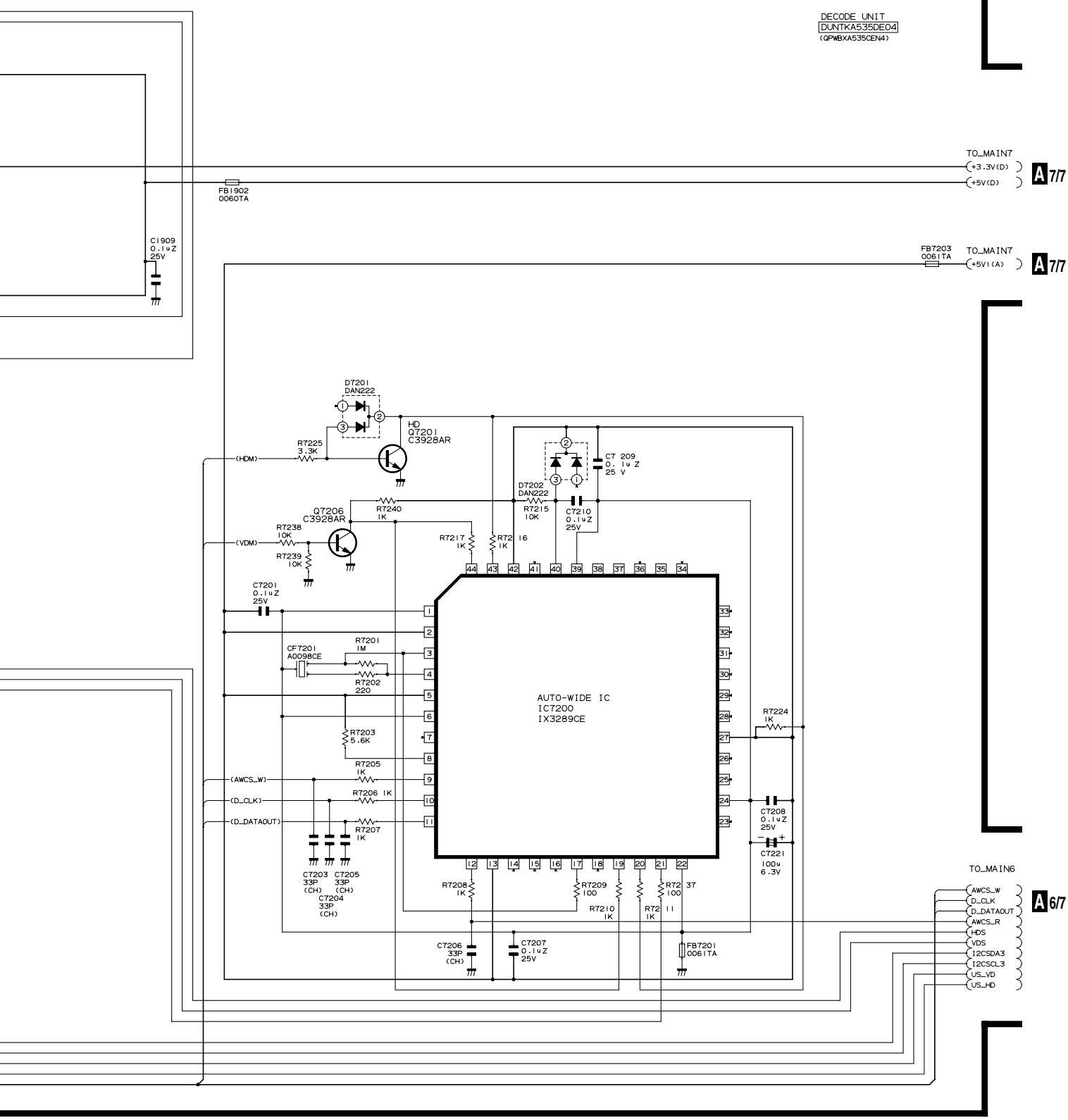

VIDEO LEVEL ADJ.
IC814
BA7655AF
RGB DECODER
IC803
CXA2101Q
DECODE UNIT
DUNTKA535DE04
(GFMBXA535CEN4)
BUFFER
IC807
TC7W34U
BUFFER
IC808
TC7W34U
6.7M LPF
IC810
IX3473CE
30M LPF
IC811
IX3474CE
6.7M LPF
IC804
IX3473CE
BUFFER
Q814
A1530AR
BUFFER
Q815
A1530AR
BUFFER
Q803
A1530AR
BUFFER
Q802
A1530AR
BUFFER
Q801
A1530AR
BUFFER
Q804
A1530AR
INV.
Q805
C144EE
Q837
C3928AR
Q838
A1530AR
P801
N0056CE
TO_MAIN6
TO_MAIN7
TO_MAIN5
TO_MAIN4

3.12 MAIN UNIT (4/7)

A 4/7 MAIN UNIT (DUNTKA535DE04)

PZ50MP2U MAIN4



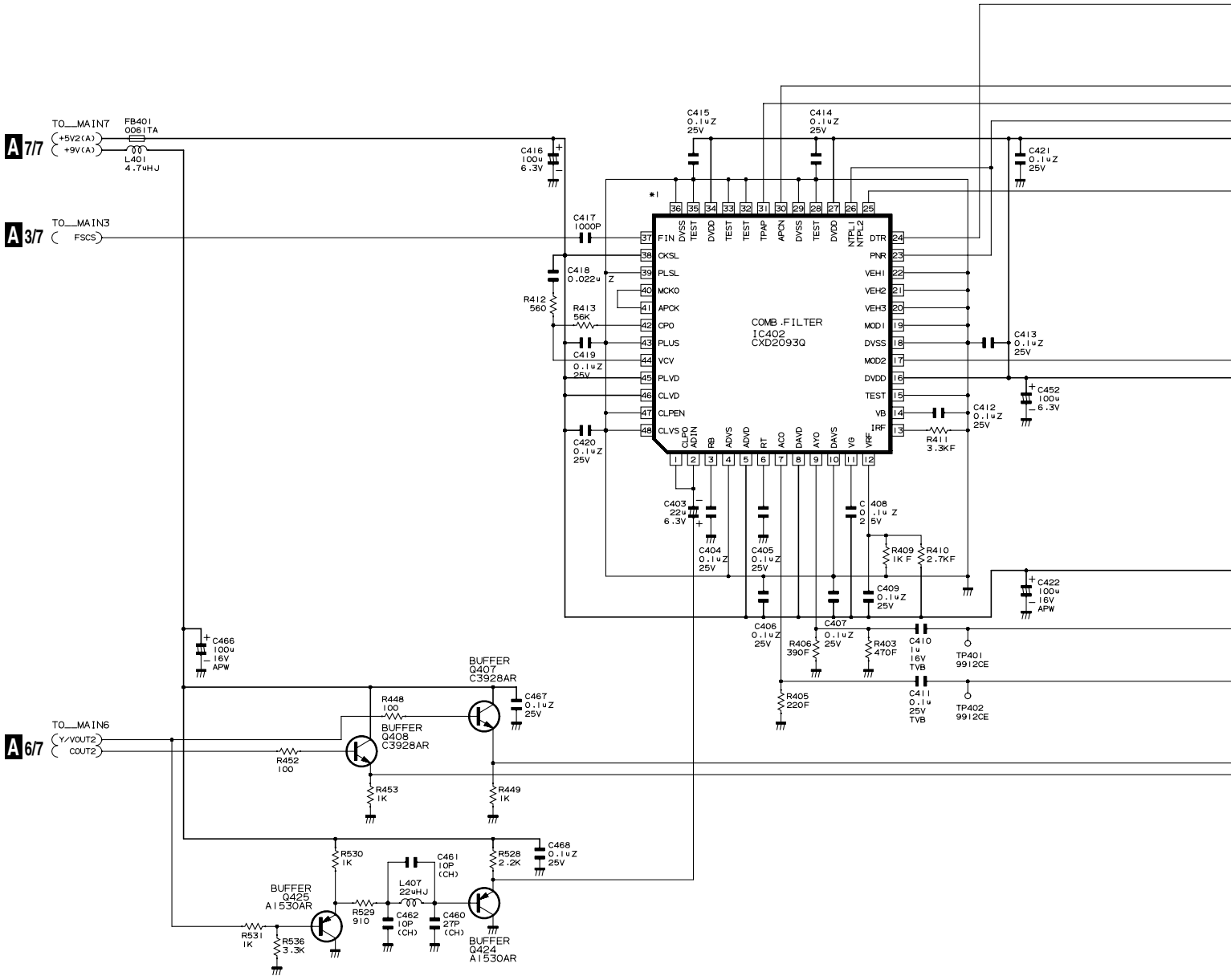

DECODE UNIT
DUNTKA535DE04
(QPWBXA535CEN4)
TO_MAIN7
+3.3V(D)
+5V(D)
A 7/7
FB1902
0060TA
C1909
0.1uZ
25V
FBT203
0061TA
TO_MAIN7
+5V1(A)
A 7/7
D7201
DAN222
HD
Q7201
C3928AR
R7225
3.3K
(HDM)
C7 209
0. 1u Z
25 V
D7202
DAN222
R7215
10K
C7210
0.1uZ
25V
Q7206
C3928AR
R7240
1K
R7238
10K
(VDM)
R7239
10K
R7217
1K
R7216
1K
C7201
0.1uZ
25V
CF7201
A0098CE
R7201
1M
R7202
220
R7203
5.6K
R7205
1K
(AWCS_W)
R7206 1K
(D_CLK)
(D_DATAOUT)
R7207
1K
C7203
33P
(CH)
C7205
33P
(CH)
C7204
33P
(CH)
AUTO-WIDE IC
IC7200
IX3289CE
R7224
1K
C7208
0.1uZ
25V
C7221
100u
6.3V
R7208
1K
R7209
100
R7210
1K
R7211
1K
R7237
100
C7206
33P
(CH)
C7207
0.1uZ
25V
FBT201
0061TA
TO_MAIN6
A 6/7
AWCS_W
D_CLK
D_DATAOUT
AWCS_R
HDS
VDS
I2CSDA3
I2CSCL3
US_VD
US_HD

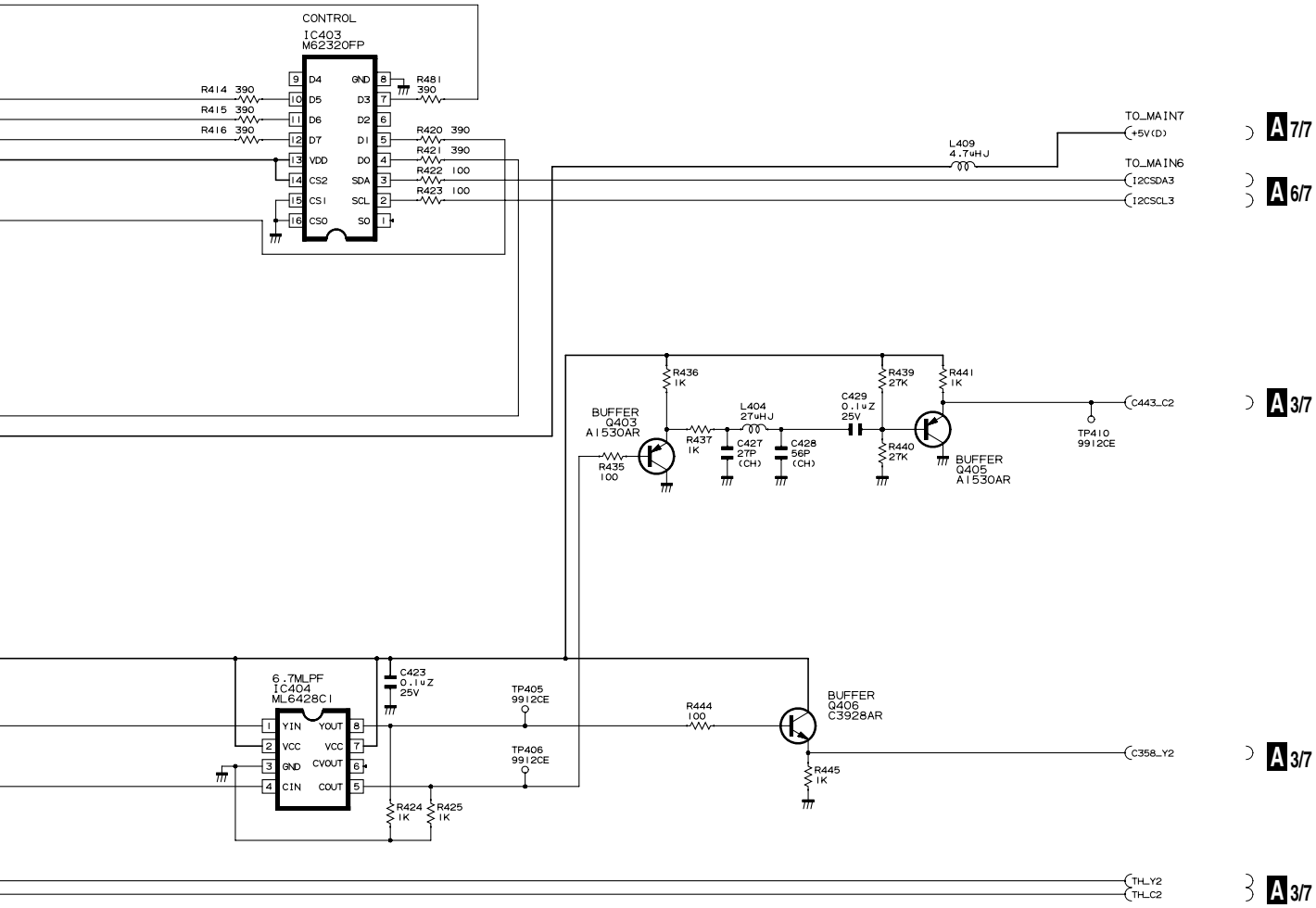
A 4/7

3.13 MAIN UNIT (5/7)

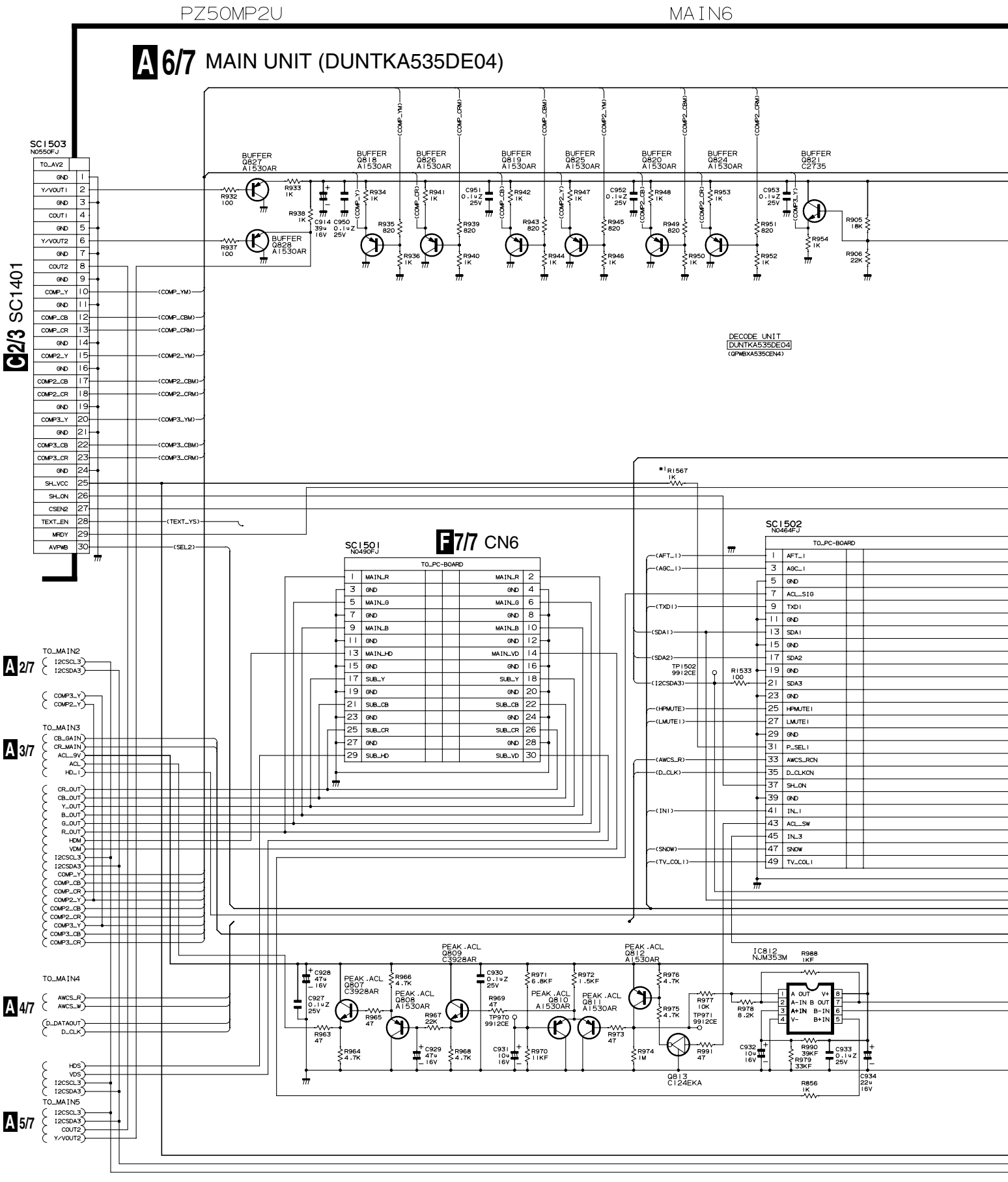
A 5/7 MAIN UNIT (DUNTKA535DE04)

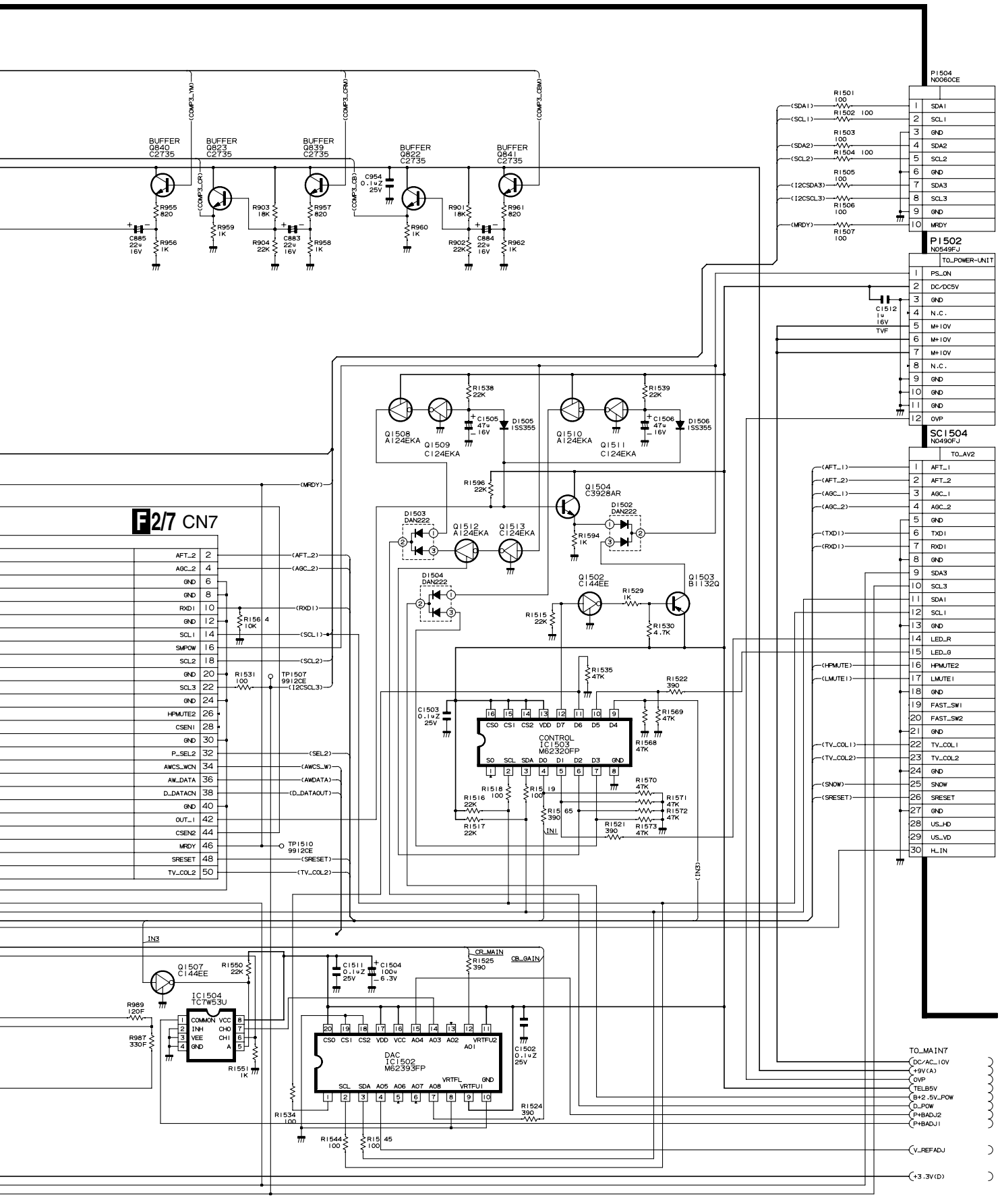
PZ50MP2U MAIN5




CONTROL
IC403
M62320FP
D4
D5
D6
D7
VDD
CS2
CS1
CS0
GND
D3
D2
D1
D0
SDA
SCL
SO
R414 390
R415 390
R416 390
R481 390
R420 390
R421 390
R422 100
R423 100
L409
4.7uHJ
TO_MAIN7
+5V(D)
TO_MAIN6
I2CSDA3
I2CSCL3
A 7/7
A 6/7
R436 1K
BUFFER
Q403
A1530AR
R437 1K
L404
27uHJ
C427 27P (CH)
C428 56P (CH)
C429 0.1uZ 25V
R439 27K
R441 1K
R440 27K
BUFFER
Q405
A1530AR
R435 100
C443_C2
TP410
9912CE
A 3/7
6.7MLPF
IC404
ML6428C1
YIN
VCC
GND
CIN
YOUT
VCC
CVOUT
COUT
C423 0.1uZ 25V
TP405
9912CE
TP406
9912CE
R424 1K
R425 1K
R444 100
BUFFER
Q406
C3928AR
R445 1K
C358_Y2
A 3/7
TH_Y2
TH_C2
A 3/7

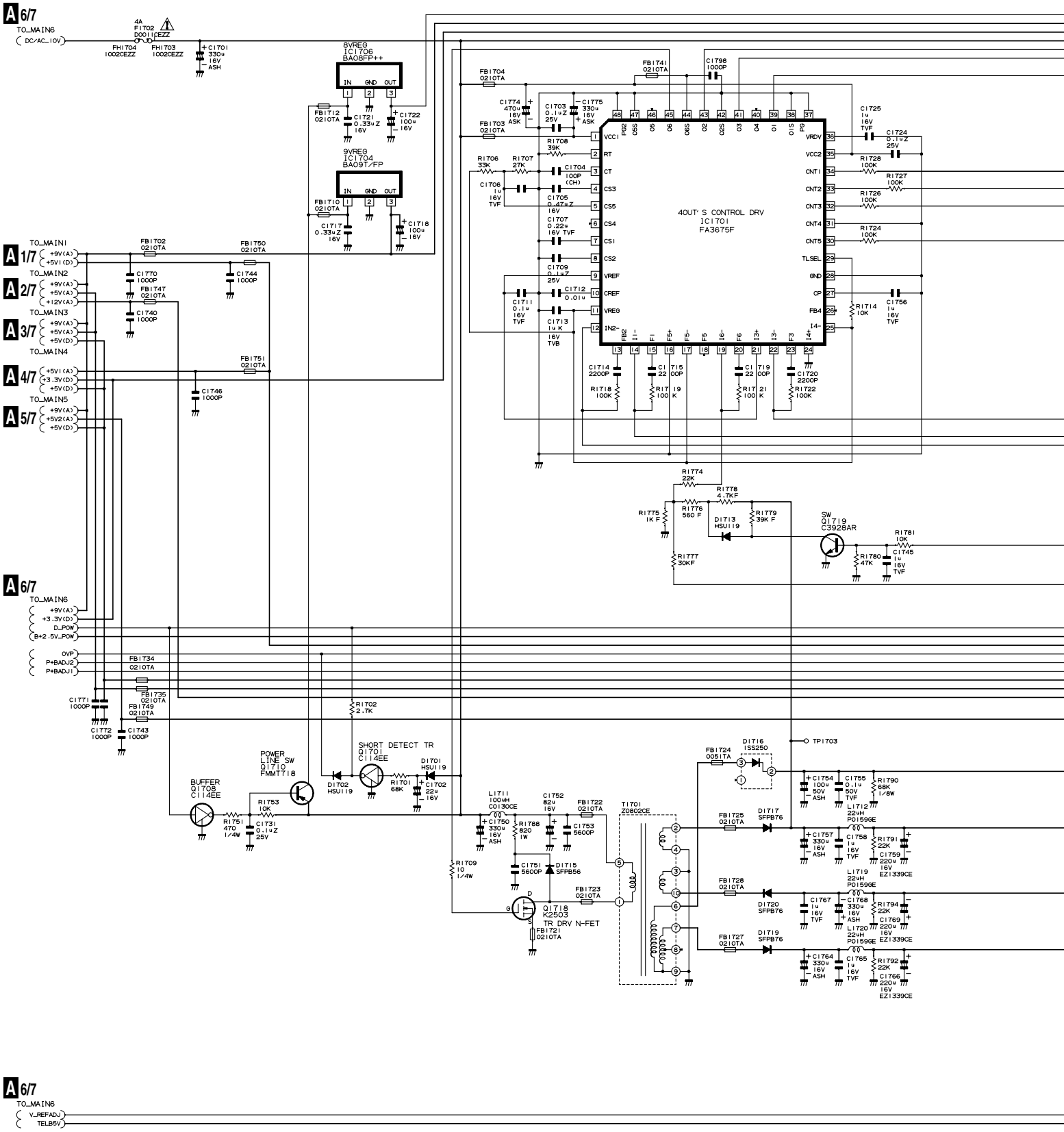
3.14 MAIN UNIT (6/7)

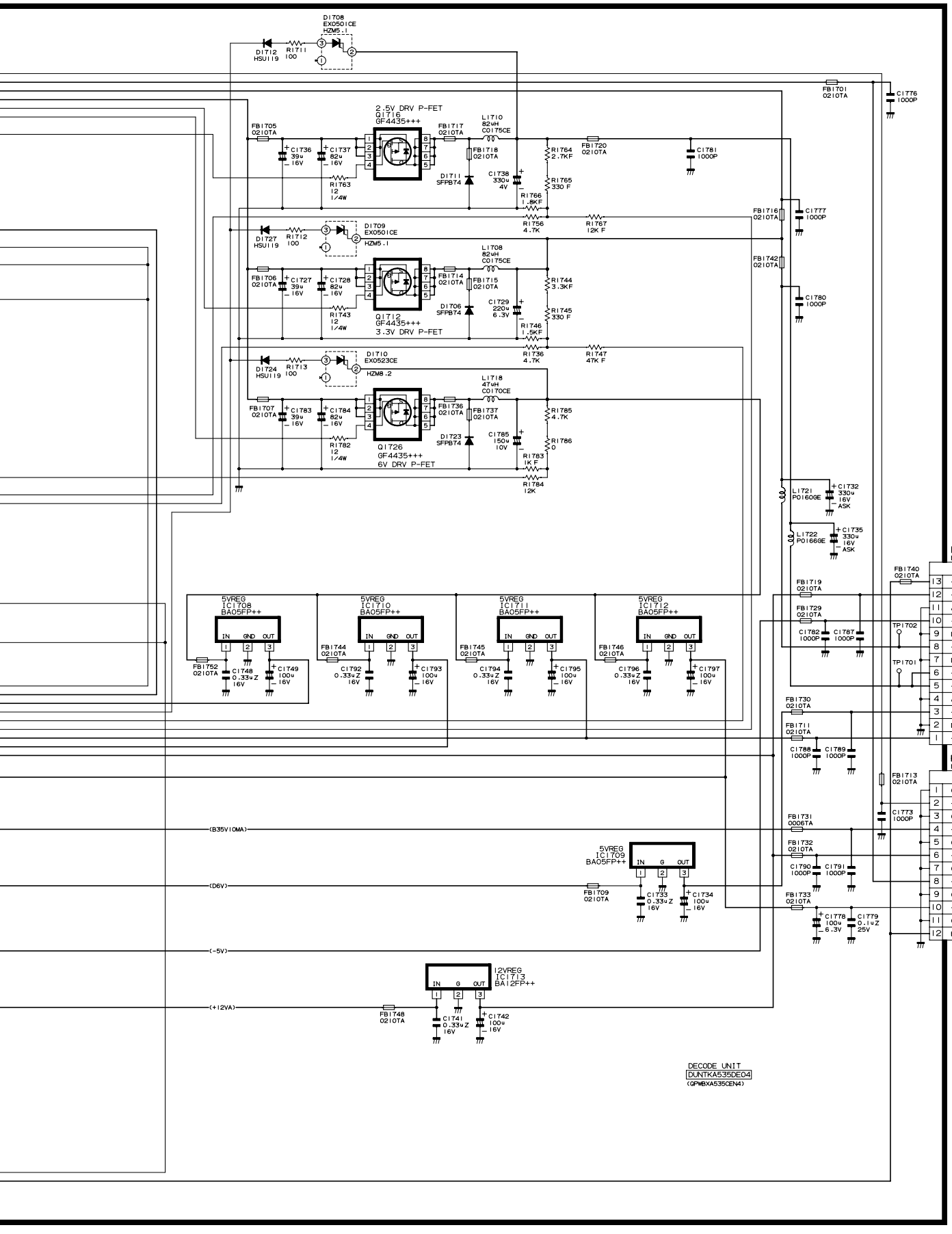



BUFFER Q840 C2735
BUFFER Q823 C2735
BUFFER Q839 C2735
BUFFER Q822 C2735
BUFFER Q841 C2735
(COMP3_YW)
(COMP3_CRW)
(COMP3_CBW)
(COMP3_CR)
(COMP3_CB)
C954 0.1uZ 25V
R955 820
R959 1K
R903 18K
R957 820
R960 1K
R901 18K
R961 820
R956 1K
R904 22K
R958 1K
R902 22K
R962 1K
C885 22u 16V
C883 22u 16V
C884 22u 16V
P1504 N0060CE
R1501 100
R1502 100
R1503 100
R1504 100
R1505 100
R1506 100
R1507 100
(SDA1)
(SCL1)
(SDA2)
(SCL2)
(I2CSDA3)
(I2CSCL3)
(MRDY)
SDA1
SCL1
GND
SDA2
SCL2
GND
SDA3
SCL3
GND
MRDY
P1502 N0549FJ
TO_POWER-UNIT
PS_ON
DC/DC5V
GND
N.C.
M+10V
M+10V
M+10V
N.C.
GND
GND
GND
OVP
C1512 1u 16V TVF
G CN703
SC1504 N0490FJ
TO_AV2
AFT_1
AFT_2
AGC_1
AGC_2
GND
TXD1
RXD1
GND
SDA3
SCL3
SDA1
SCL1
GND
LED_R
LED_G
HPMUTE2
LMUTE1
GND
FAST_SW1
FAST_SW2
GND
TV_COL1
TV_COL2
GND
SNOW
SRESET
GND
VS_HD
VS_VD
H_IN
(AFT_1)
(AFT_2)
(AGC_1)
(AGC_2)
(TXD1)
(RXD1)
(HPMUTE)
(LMUTE1)
(TV_COL1)
(TV_COL2)
(SNOW)
(SRESET)
C2/3 SC1402
F 2/7 CN7
AFT_2 2
AGC_2 4
GND 6
GND 8
RXD1 10
GND 12
SCL1 14
SMPOW 16
SCL2 18
GND 20
SCL3 22
GND 24
HPMUTE2 26
CSEN1 28
GND 30
P_SEL2 32
AWCS_WCN 34
AW_DATA 36
D_DATACN 38
GND 40
OUT_1 42
CSEN2 44
MRDY 46
SRESET 48
TV_COL2 50
(AFT_2)
(AGC_2)
(RXD1)
(SCL1)
(SCL2)
(I2CSCL3)
(SEL2)
(AWCS_W)
(AWDATA)
(D_DATAOUT)
(MRDY)
(SRESET)
(TV_COL2)
R1564 10K
R1531 100
TP1507 9912CE
TP1510 9912CE
Q1508 A124EKA
Q1509 C124EKA
Q1510 A124EKA
Q1511 C124EKA
R1538 22K
R1539 22K
C1505 47u 16V
C1506 47u 16V
D1505 1SS355
D1506 1SS355
R1596 22K
Q1504 C3928AR
D1502 DAN222
D1503 DAN222
D1504 DAN222
Q1512 A124EKA
Q1513 C124EKA
R1594 1K
Q1502 C144EE
R1529 1K
Q1503 B1132Q
R1515 22K
R1530 4.7K
R1535 47K
R1522 390
R1569 47K
R1568 47K
C1503 0.1uZ 25V
CONTROL IC1503 M62320FP
R1570 47K
R1571 47K
R1572 47K
R1573 47K
R1518 100
R1519 100
R1516 22K
R1517 22K
R1565 390
R1521 390
IN1
IN3
Q1507 C144EE
R1550 22K
R989 120F
R987 330F
IC1504 TC7W53U
C1511 0.1uZ 25V
C1504 100u 6.3V
CR_MAIN
CB_GAIN
R1525 390
DAC IC1502 M62393FP
C1502 0.1uZ 25V
R1551 1K
R1534 100
R1544 100
R1545 100
R1524 390
TO_MAIN7
DC/AC_10V
+9V(A)
OVP
TELB5V
B+2.5V_POW
D_POW
P+BADJ2
P+BADJ1
V_REFADJ
+3.3V(D)
A 7/7
A 6/7

3.15 MAIN UNIT (7/7)

A 7/7 MAIN UNIT (DUNTKA535DE04)





F7/7 CN9

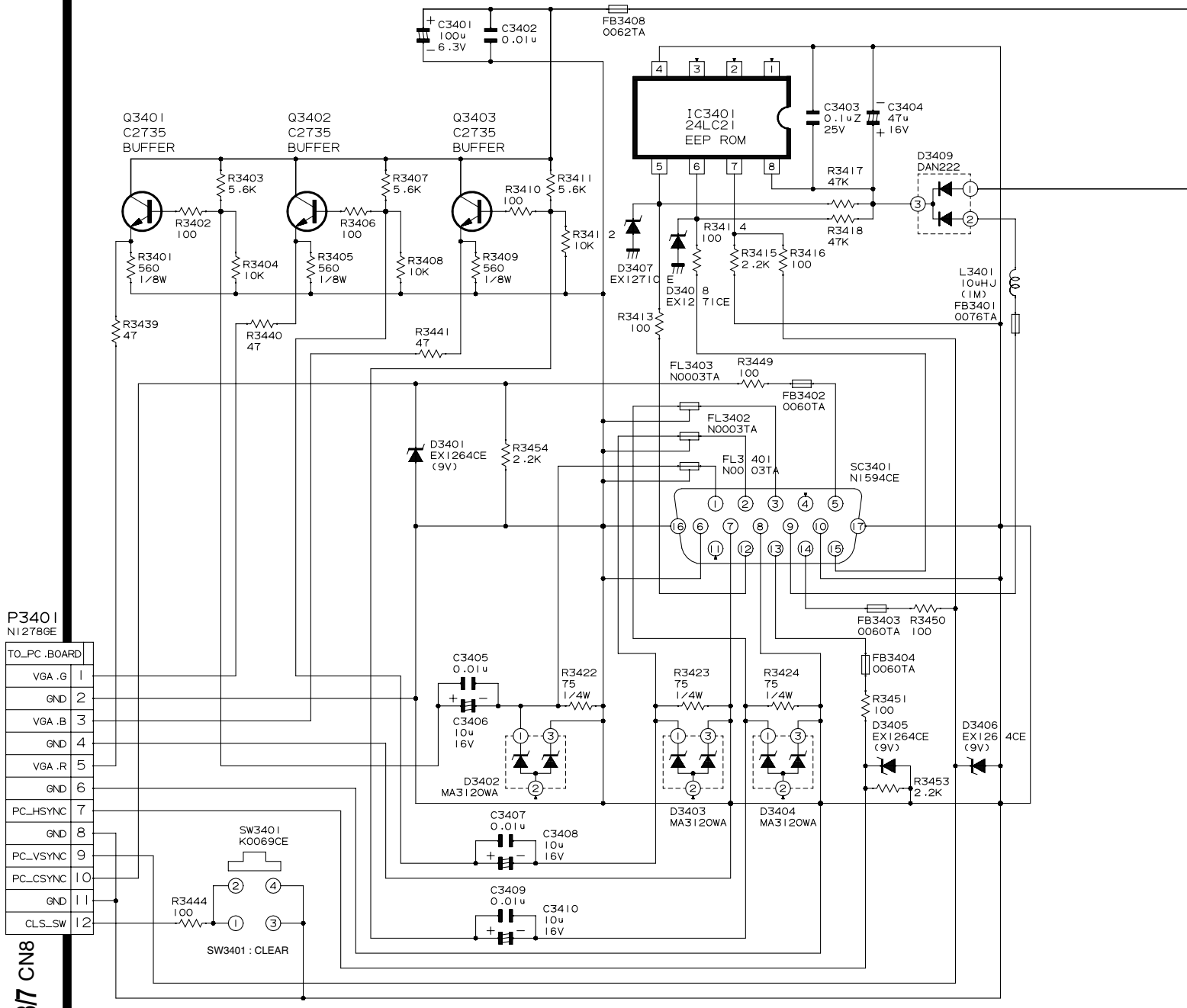
C2/3 P2501

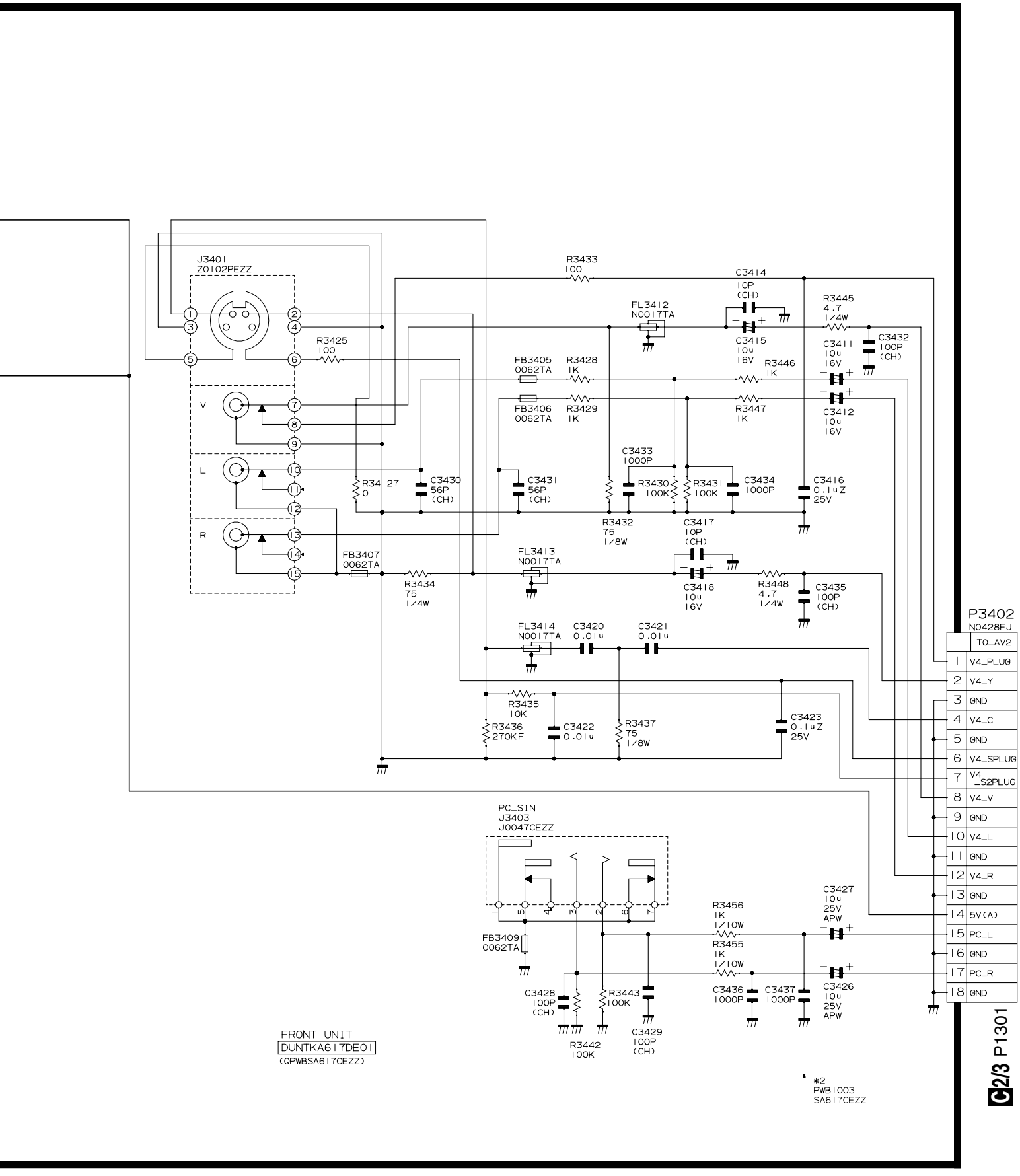
A7/7

3.16 FRONT UNIT

PZ50MP2U FRONT

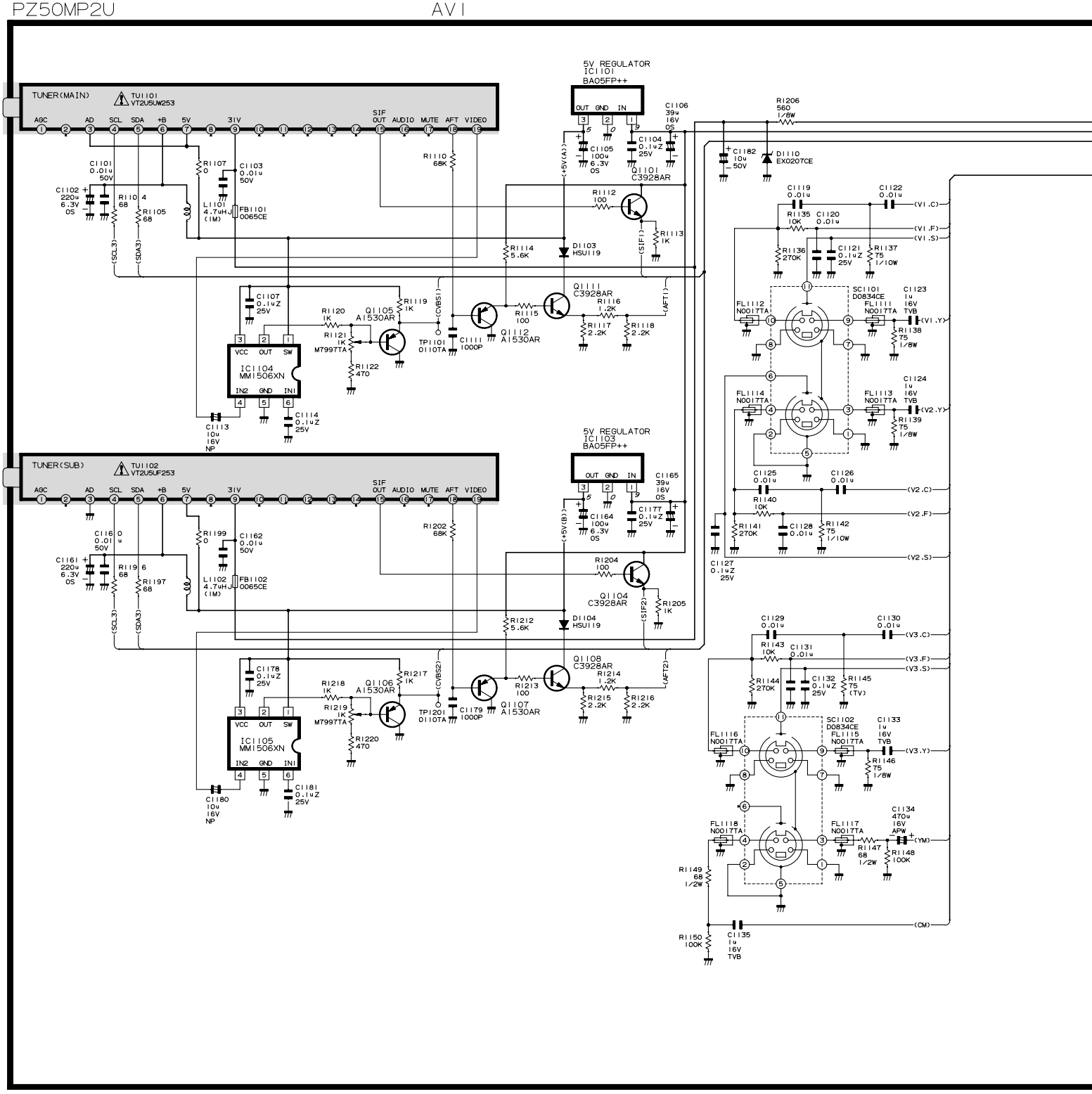
B FRONT UNIT (DUNTKA617DE01)

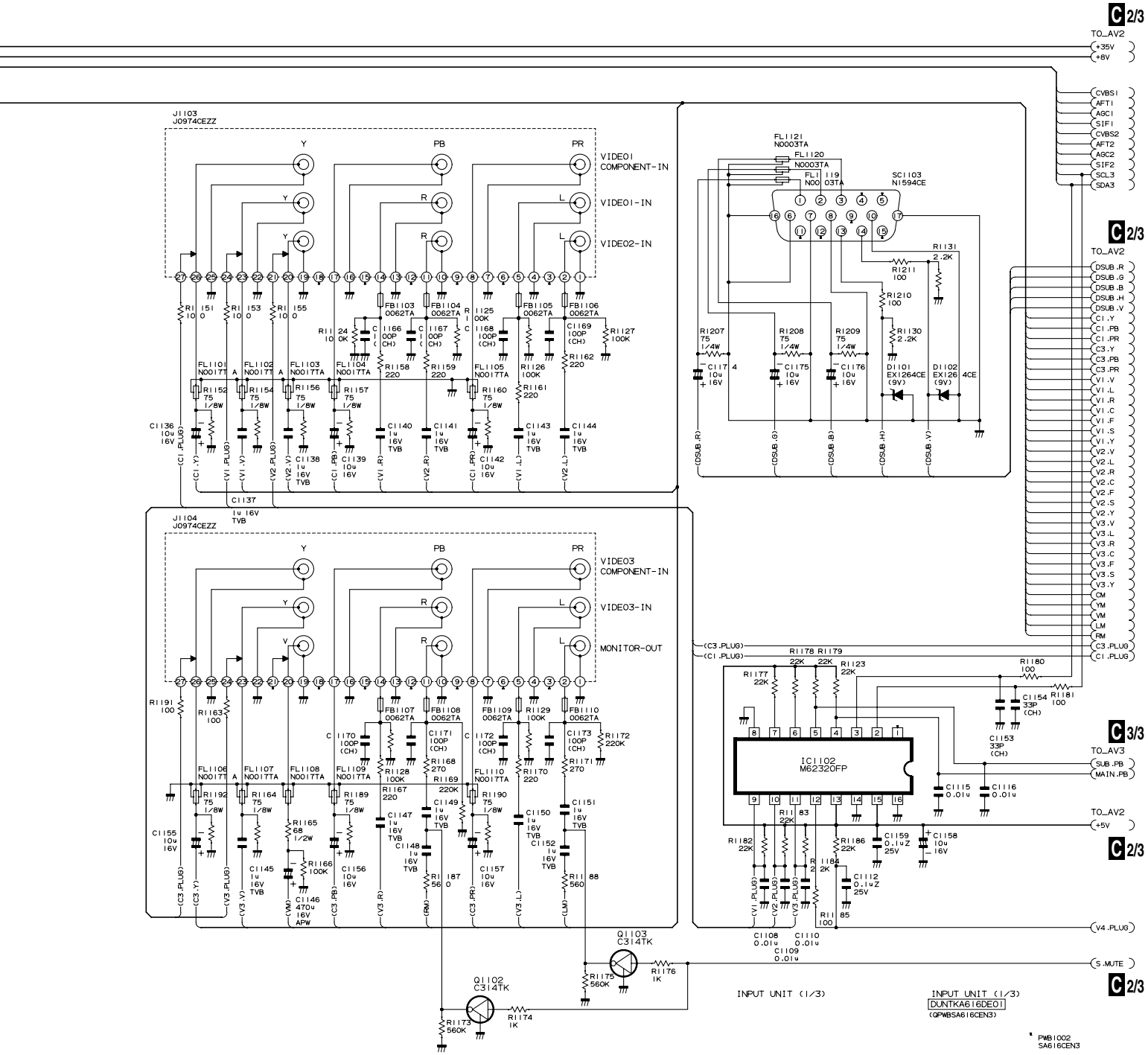



J3401
Z0102PEZZ
V
L
R
R3425
100
R3433
100
C3414
10P
(CH)
FL3412
N0017TA
C3415
10u
16V
R3445
4.7
1/4W
C3432
100P
(CH)
C3411
10u
16V
R3446
1K
C3412
10u
16V
FB3405
0062TA
R3428
1K
FB3406
0062TA
R3429
1K
R3447
1K
C3433
1000P
R3430
100K
R3431
100K
C3434
1000P
C3416
0.1uZ
25V
R34 27
0
C3430
56P
(CH)
C3431
56P
(CH)
R3432
75
1/8W
C3417
10P
(CH)
FB3407
0062TA
FL3413
N0017TA
R3434
75
1/4W
C3418
10u
16V
R3448
4.7
1/4W
C3435
100P
(CH)
FL3414
N0017TA
C3420
0.01u
C3421
0.01u
R3435
10K
R3436
270KF
C3422
0.01u
R3437
75
1/8W
C3423
0.1uZ
25V
P3402
N0428FJ
TO_AV2
1 V4_PLUG
2 V4_Y
3 GND
4 V4_C
5 GND
6 V4_SPLUG
7 V4_S2PLUG
8 V4_V
9 GND
10 V4_L
11 GND
12 V4_R
13 GND
14 5V(A)
15 PC_L
16 GND
17 PC_R
18 GND
PC_SIN
J3403
J0047CEZZ
FB3409
0062TA
R3456
1K
1/10W
R3455
1K
1/10W
C3427
10u
25V
APW
C3426
10u
25V
APW
C3436
1000P
C3437
1000P
C3428
100P
(CH)
R3443
100K
R3442
100K
C3429
100P
(CH)
FRONT UNIT
DUNTKA617DE01
(QPWBSA617CEZZ)
*2
PWB1003
SA617CEZZ
C2/3 P1301

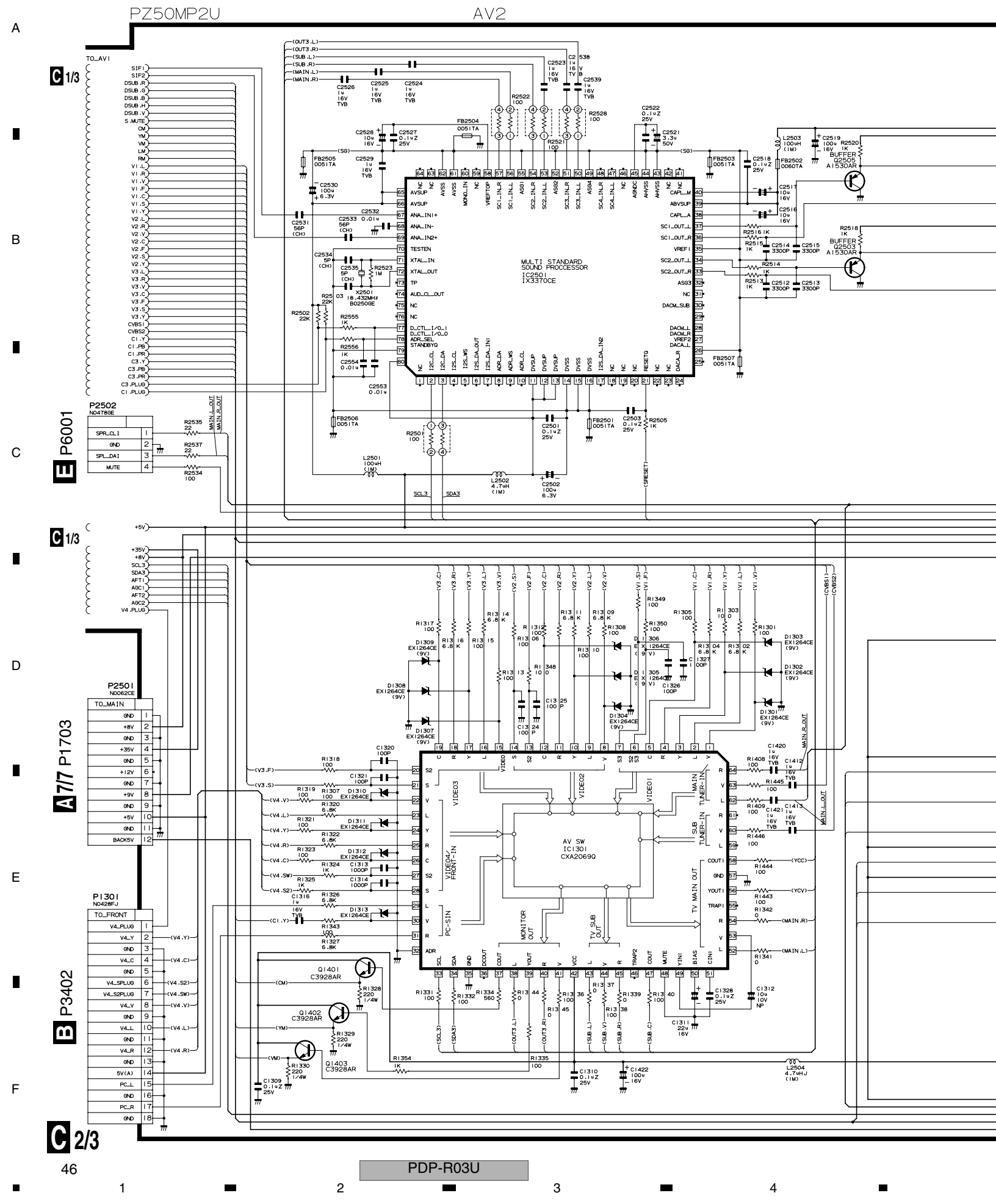
3.17 AV UNIT (1/3)

C 1/3 AV UNIT (DUNTKA616DE01)




C 2/3
TO_AV2
+35V
+8V
J1103
J0974CEZZ
VIDEO1 COMPONENT-IN
VIDEO1-IN
VIDEO2-IN
J1104
J0974CEZZ
VIDEO3 COMPONENT-IN
VIDEO3-IN
MONITOR-OUT
CVBS1
AFT1
AGC1
SIF1
CVBS2
AFT2
AGC2
SIF2
SCL3
SDA3
DSUB.R
DSUB.G
DSUB.B
DSUB.H
DSUB.V
C1.Y
C1.PB
C1.PR
C3.Y
C3.PB
C3.PR
V1.V
V1.L
V1.R
V1.C
V1.F
V1.S
V2.Y
V2.V
V2.L
V2.R
V2.C
V2.F
V2.S
V3.Y
V3.V
V3.L
V3.R
V3.C
V3.F
V3.S
CM
YM
VM
LM
RM
C3.PLUG
C1.PLUG
IC1102
M62320FP
C 3/3
TO_AV3
SUB.PB
MAIN.PB
TO_AV2
+5V
V4.PLUG
S.MUTE
Q1103
C314TK
Q1102
C314TK
INPUT UNIT (1/3)
INPUT UNIT (1/3)
DUNTKA616DE01
(QPWBSA616CEN3)
PWB1002
SA616CEN3

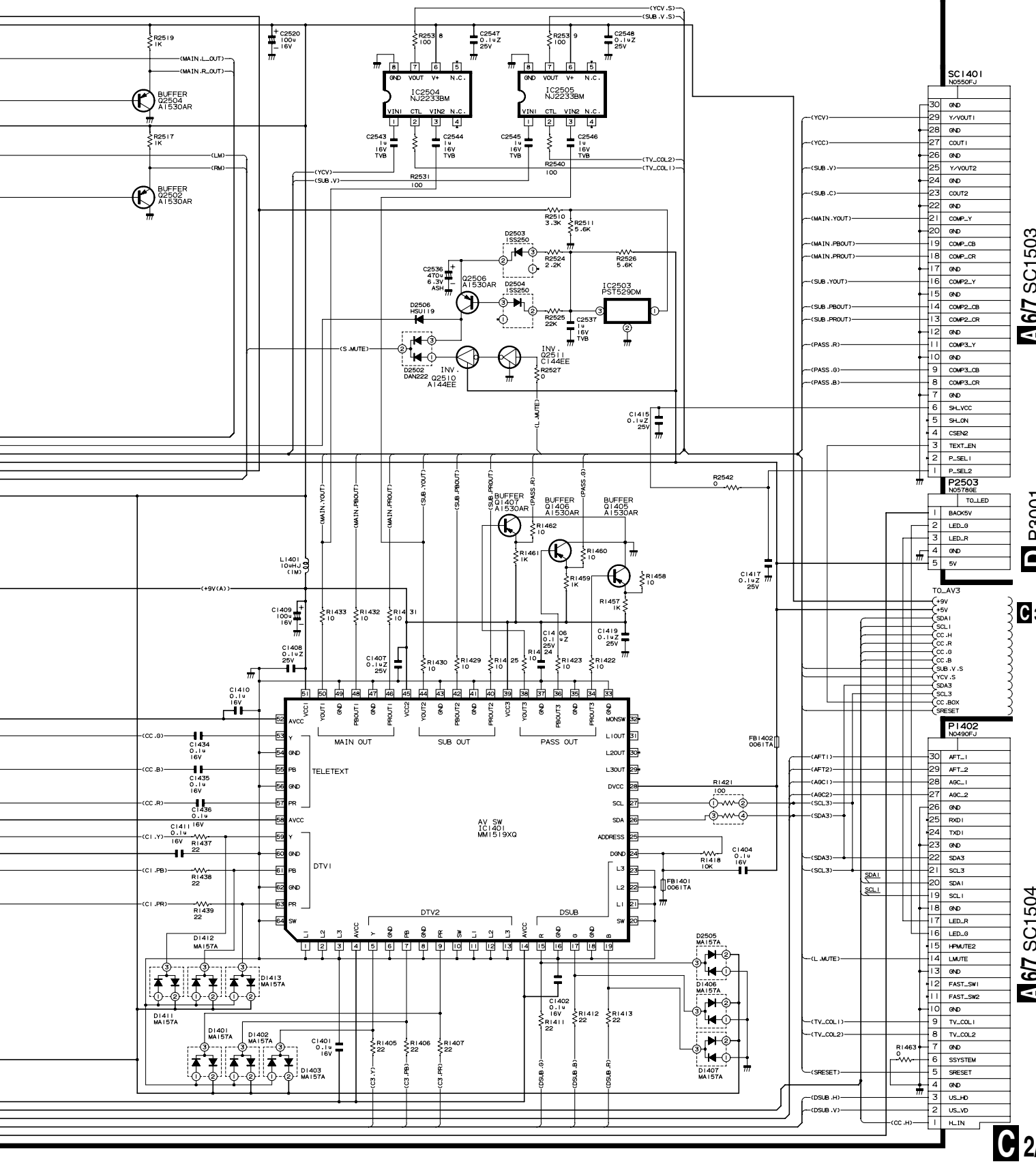
3.18 AV UNIT (2/3)



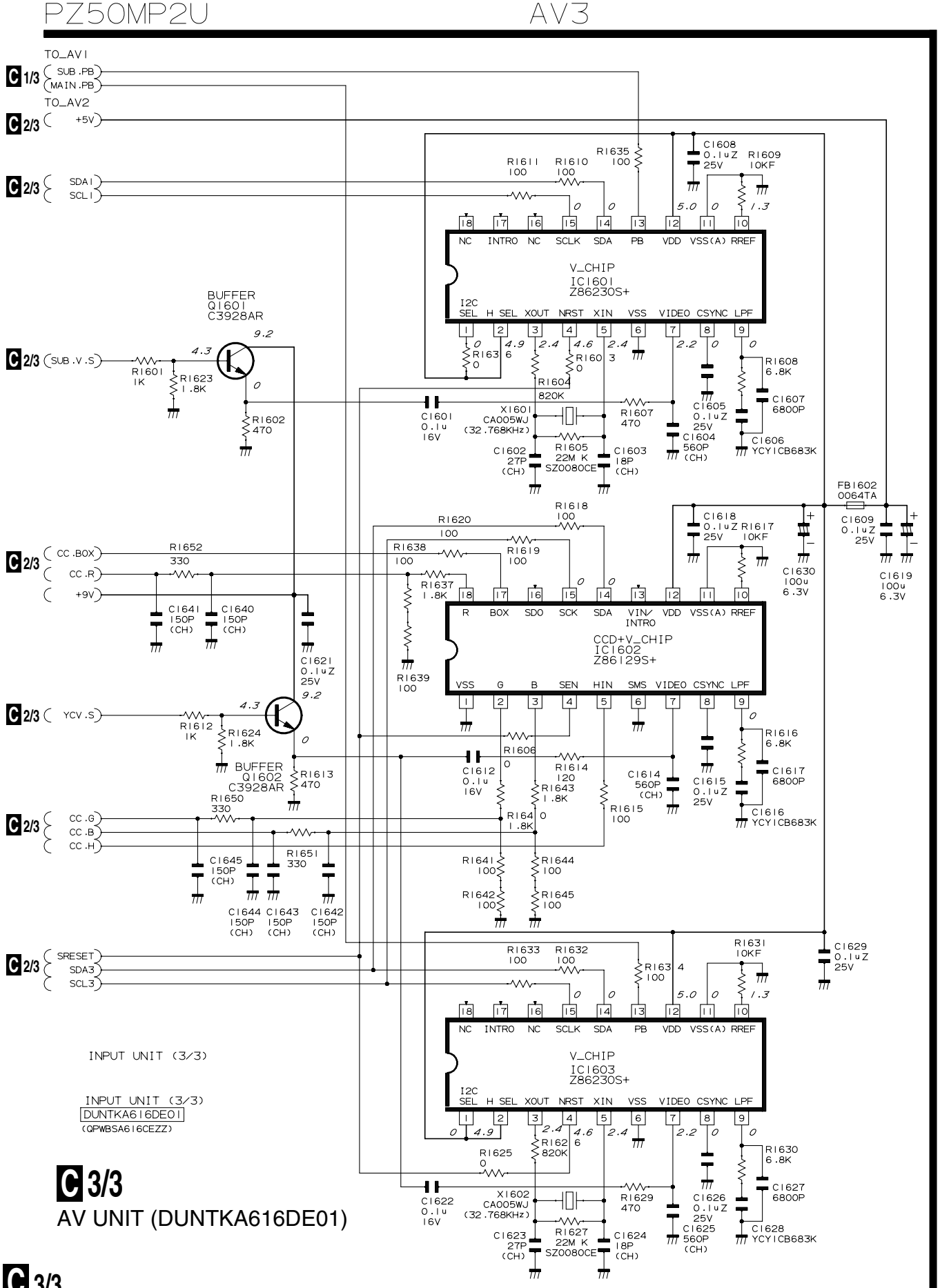
INPUT UNIT (2/3)

INPUT UNIT (2/3)
DUNTKA616DE01
(QPWBSA616CEZZ)

C 2/3 AV UNIT (DUNTKA616DE01)

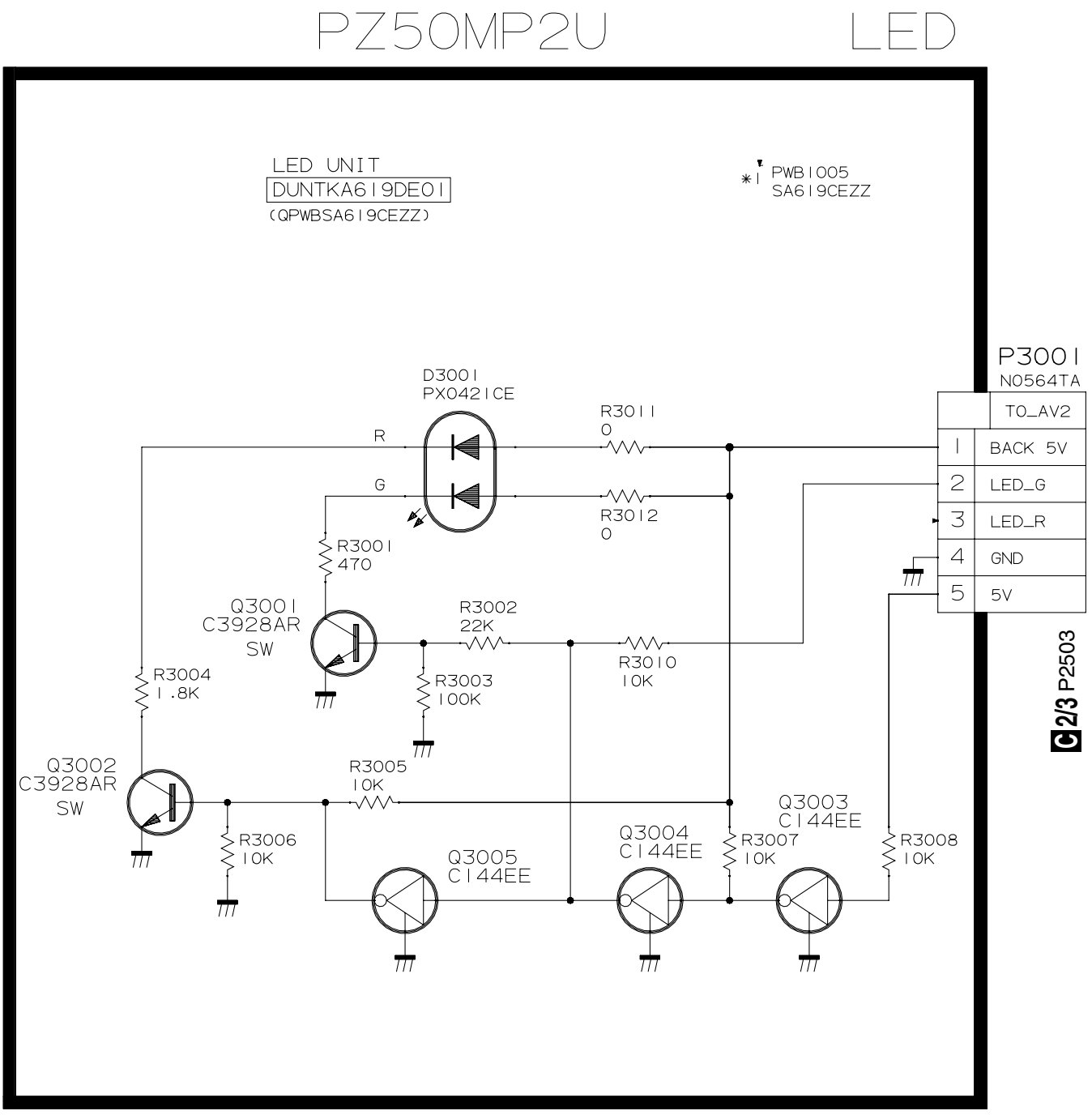


3.19 AV UNIT (3/3)

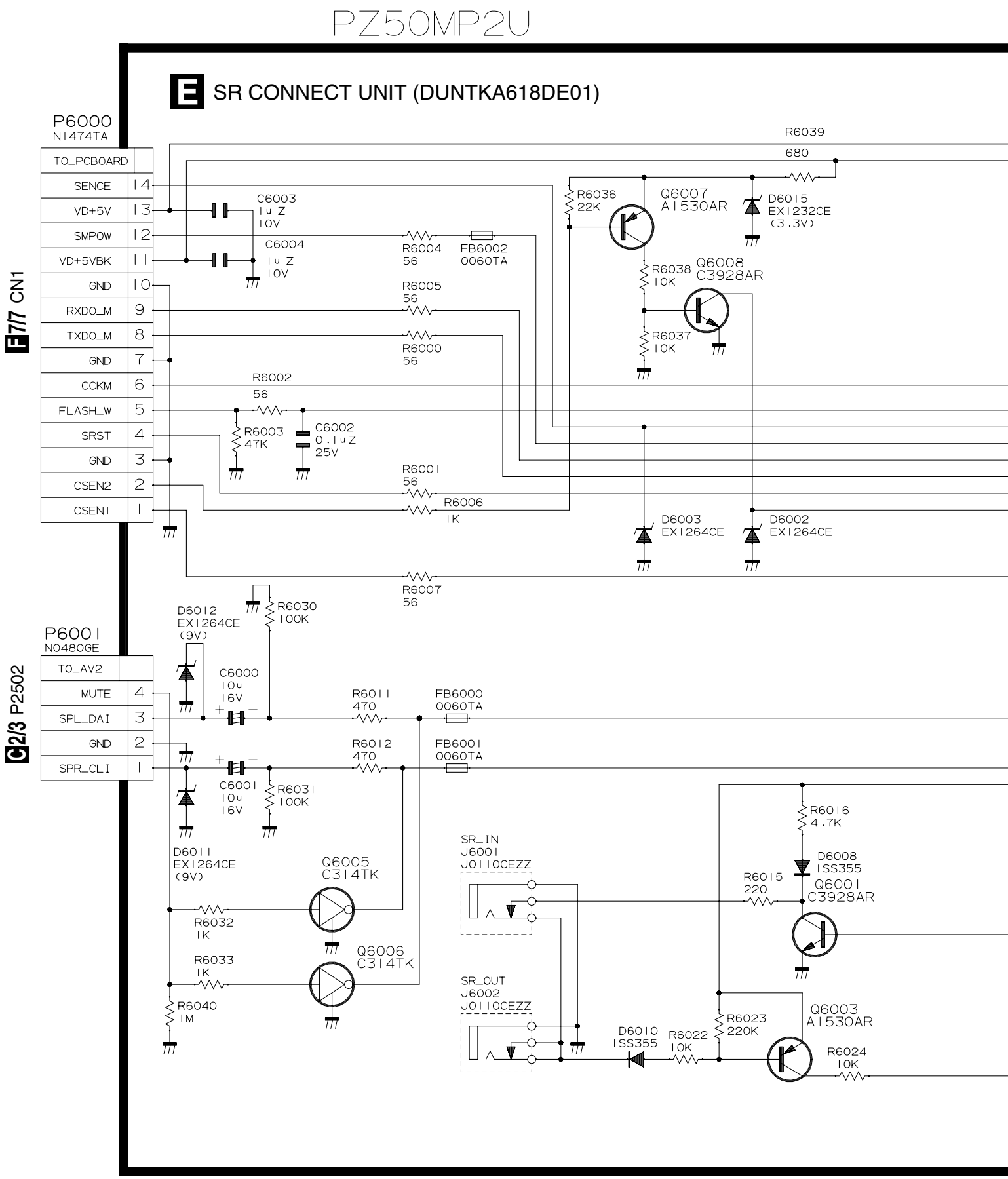


3.20 LED UNIT

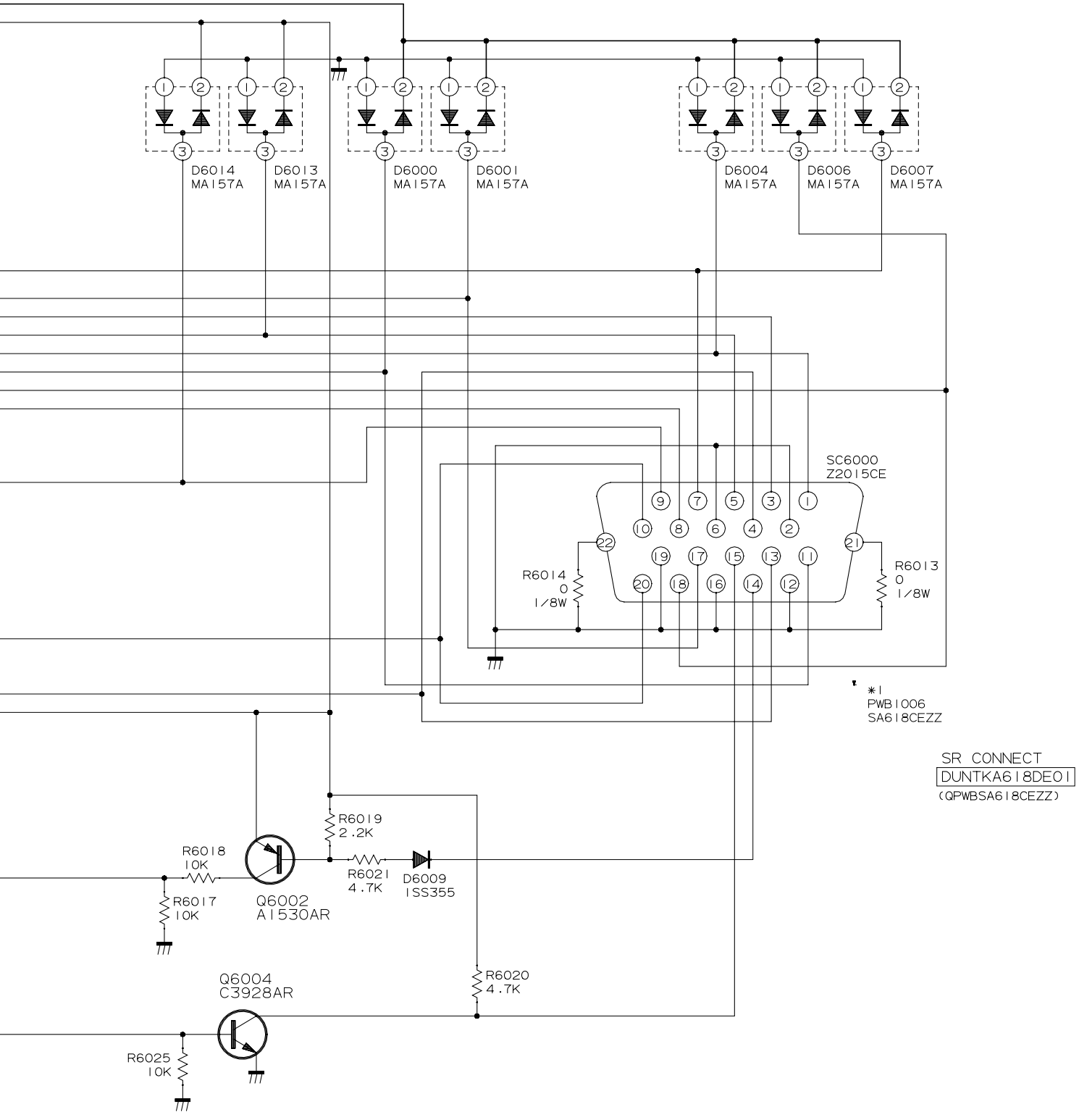
D LED UNIT (DUNTKA619DE01)



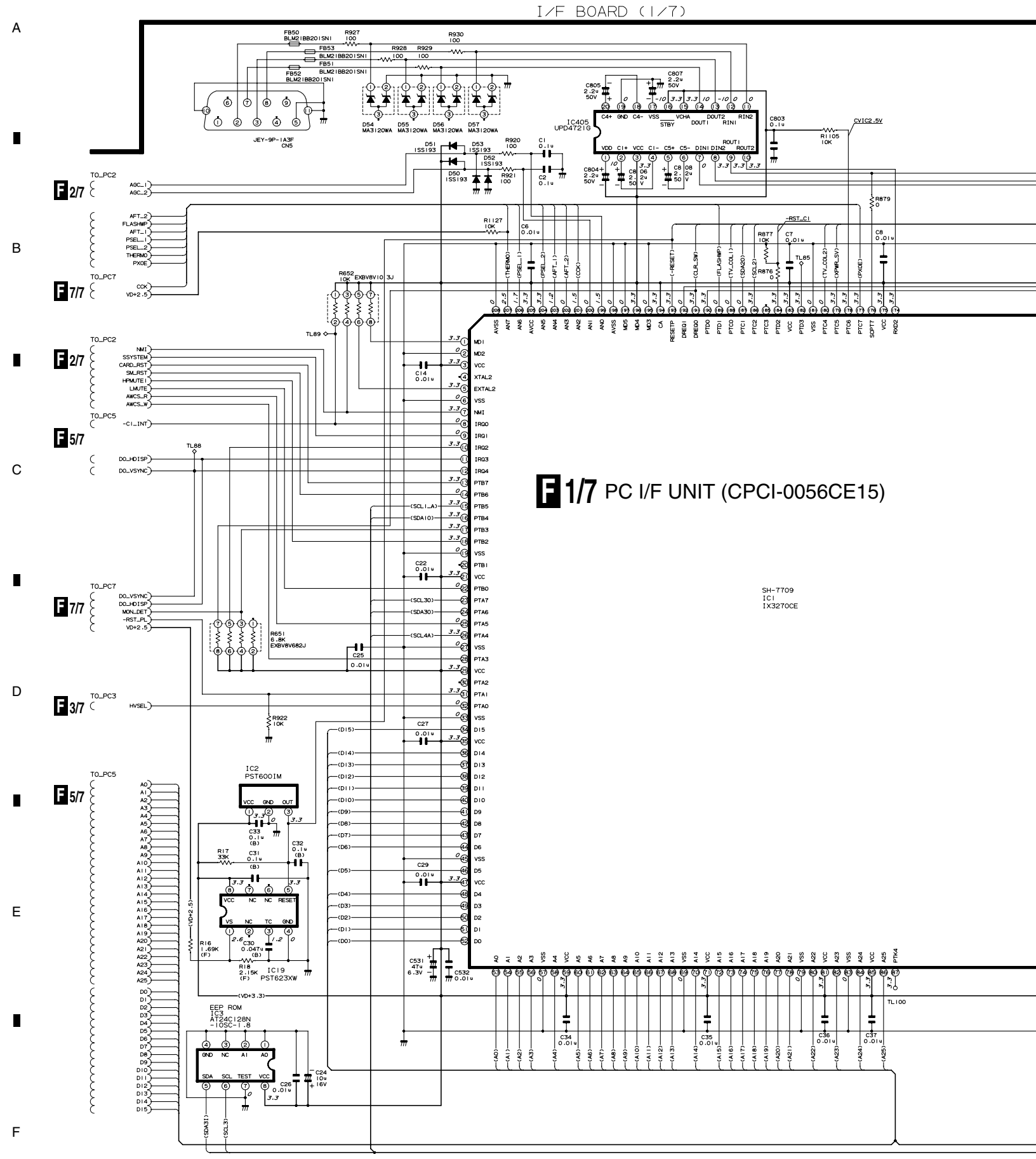
3.21 SR CONNECT UNIT

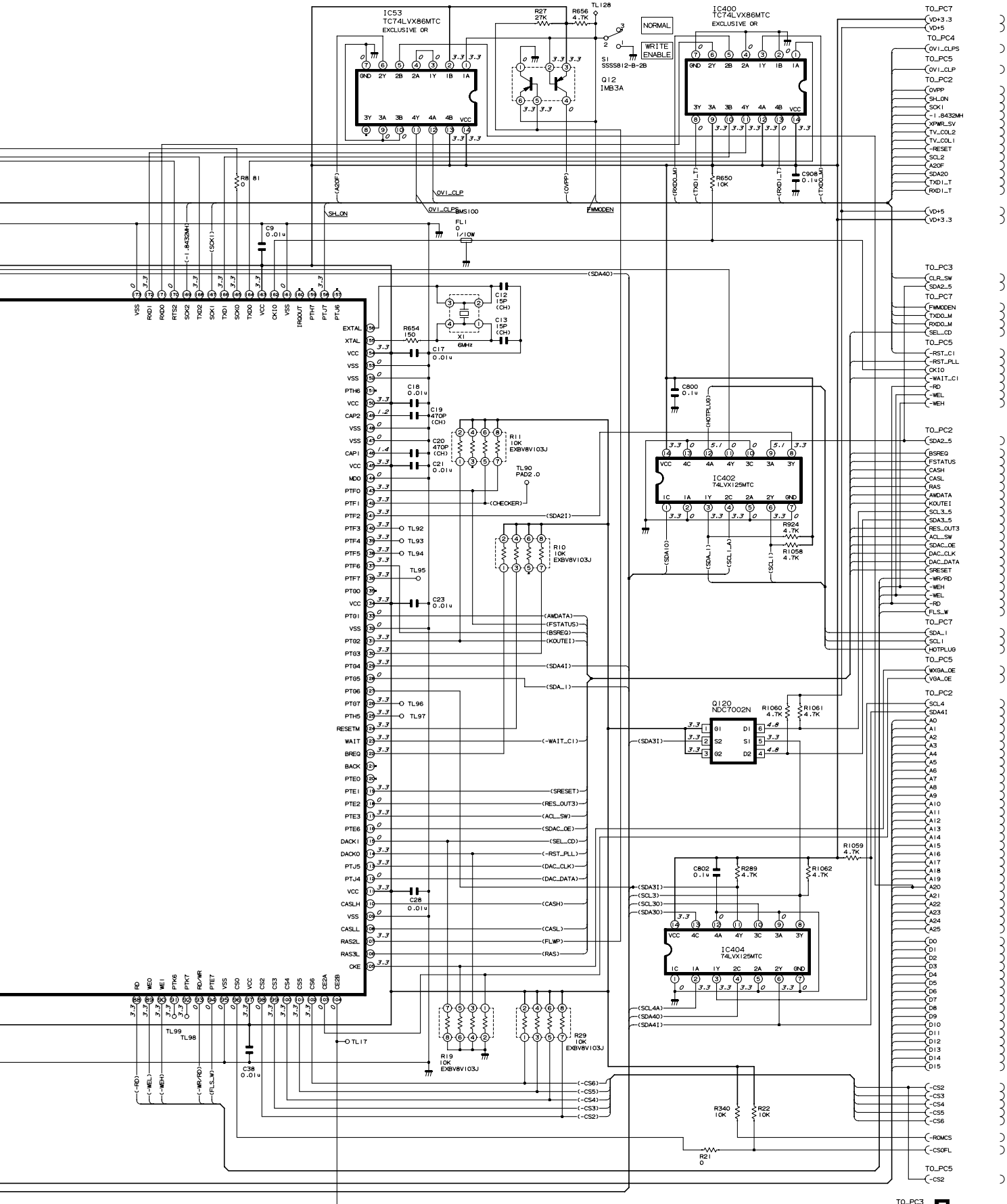


SR

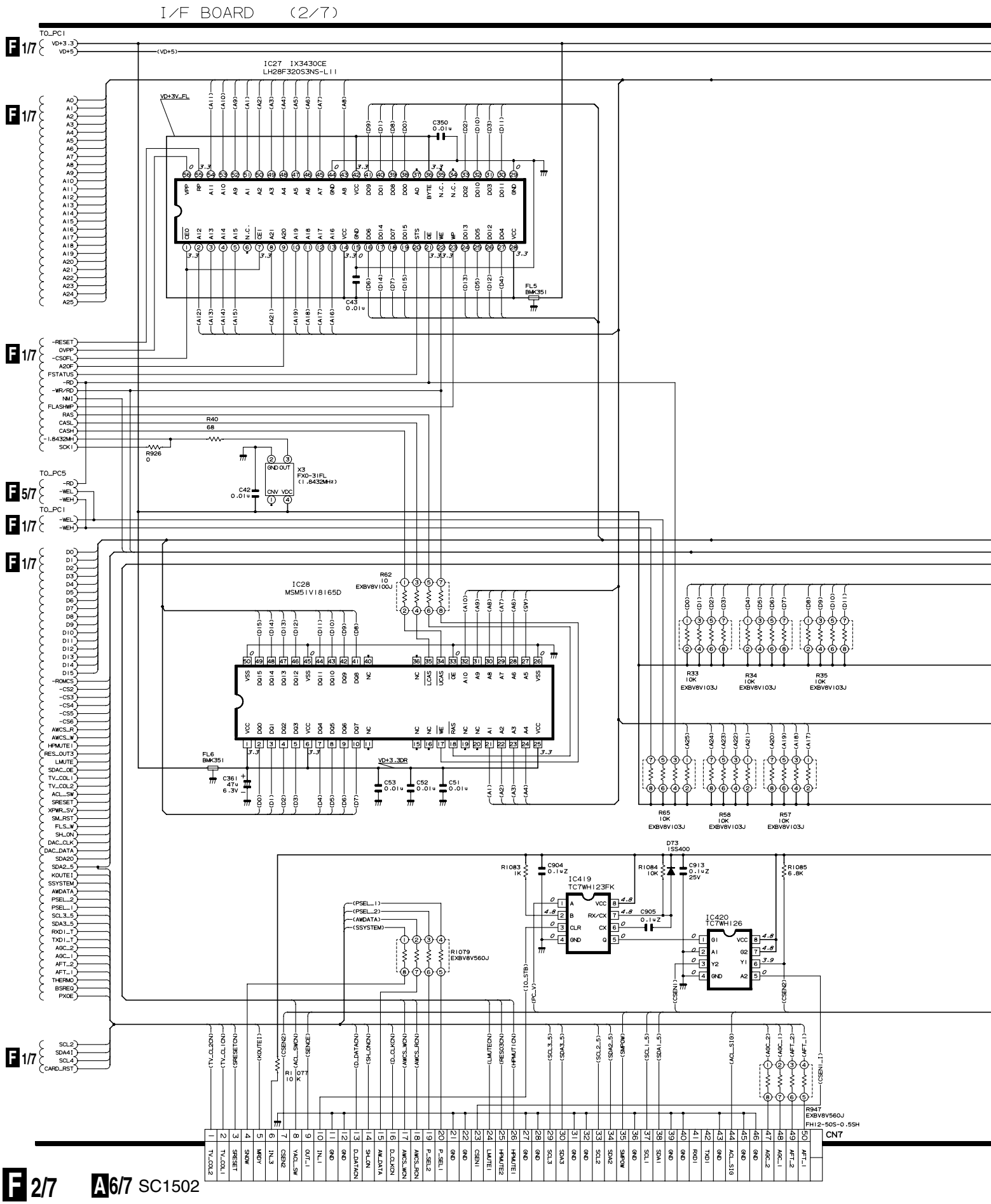

D6014
MA157A
D6013
MA157A
D6000
MA157A
D6001
MA157A
D6004
MA157A
D6006
MA157A
D6007
MA157A
SC6000
Z2015CE
R6014
0
1/8W
R6013
0
1/8W
*1
PWB1006
SA618CEZZ
SR CONNECT
DUNTKA618DE01
(QPWBSA618CEZZ)
R6019
2.2K
R6018
10K
R6021
4.7K
D6009
1SS355
R6017
10K
Q6002
A1530AR
R6020
4.7K
Q6004
C3928AR
R6025
10K

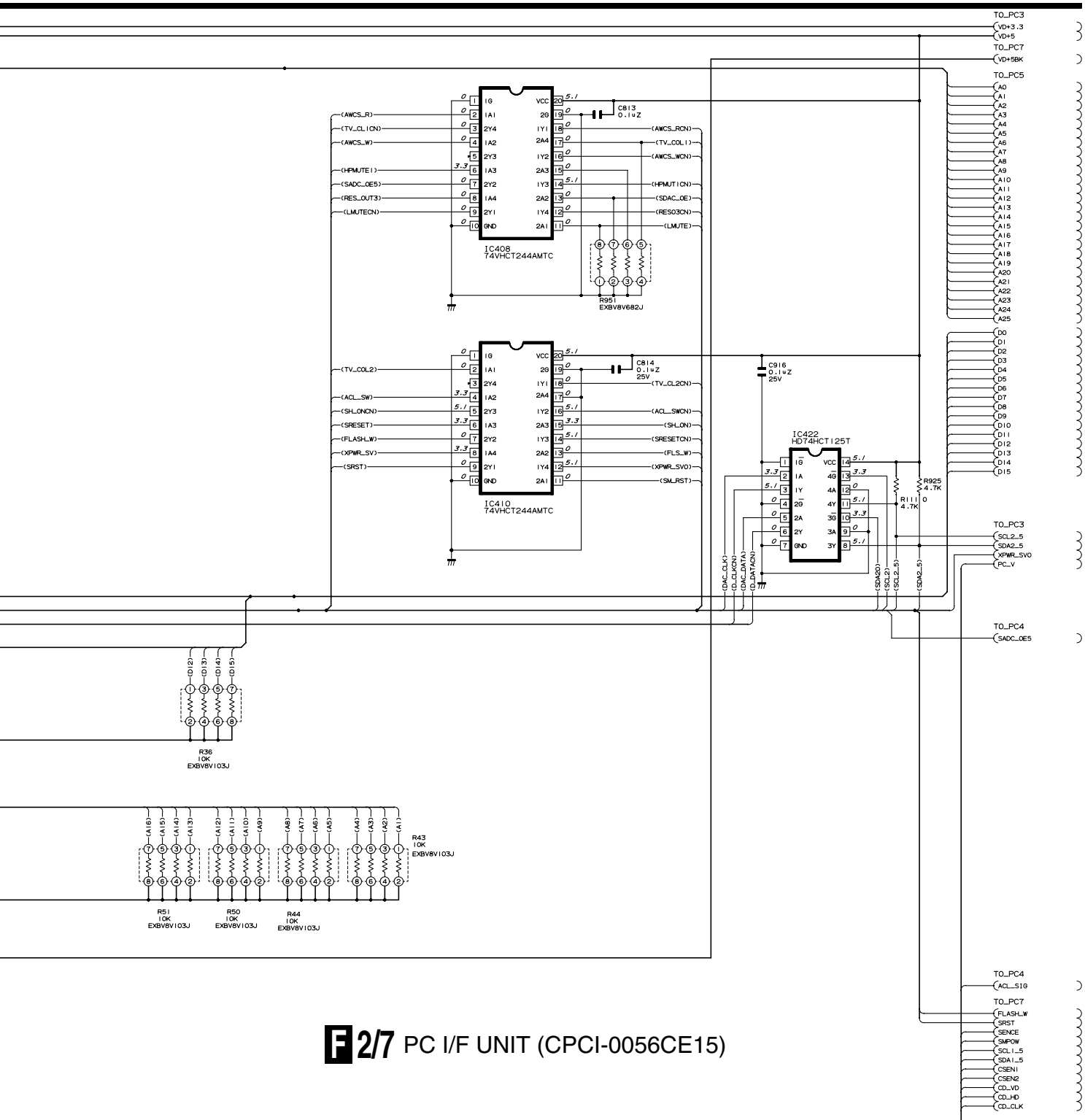
3.22 PC I/F UNIT (1/7)




IC53
TC74LVX86MTC
EXCLUSIVE OR
IC400
TC74LVX86MTC
EXCLUSIVE OR
NORMAL
WRITE ENABLE
S1
SSSS812-B-2B
Q12
IMB3A
IC402
T4LVX125MTC
IC404
T4LVX125MTC
Q120
NDC7002N
TO_PC7
TO_PC4
TO_PC5
TO_PC2
TO_PC3
F 7/7
F 4/7
F 5/7
F 2/7
F 3/7
F 1/7

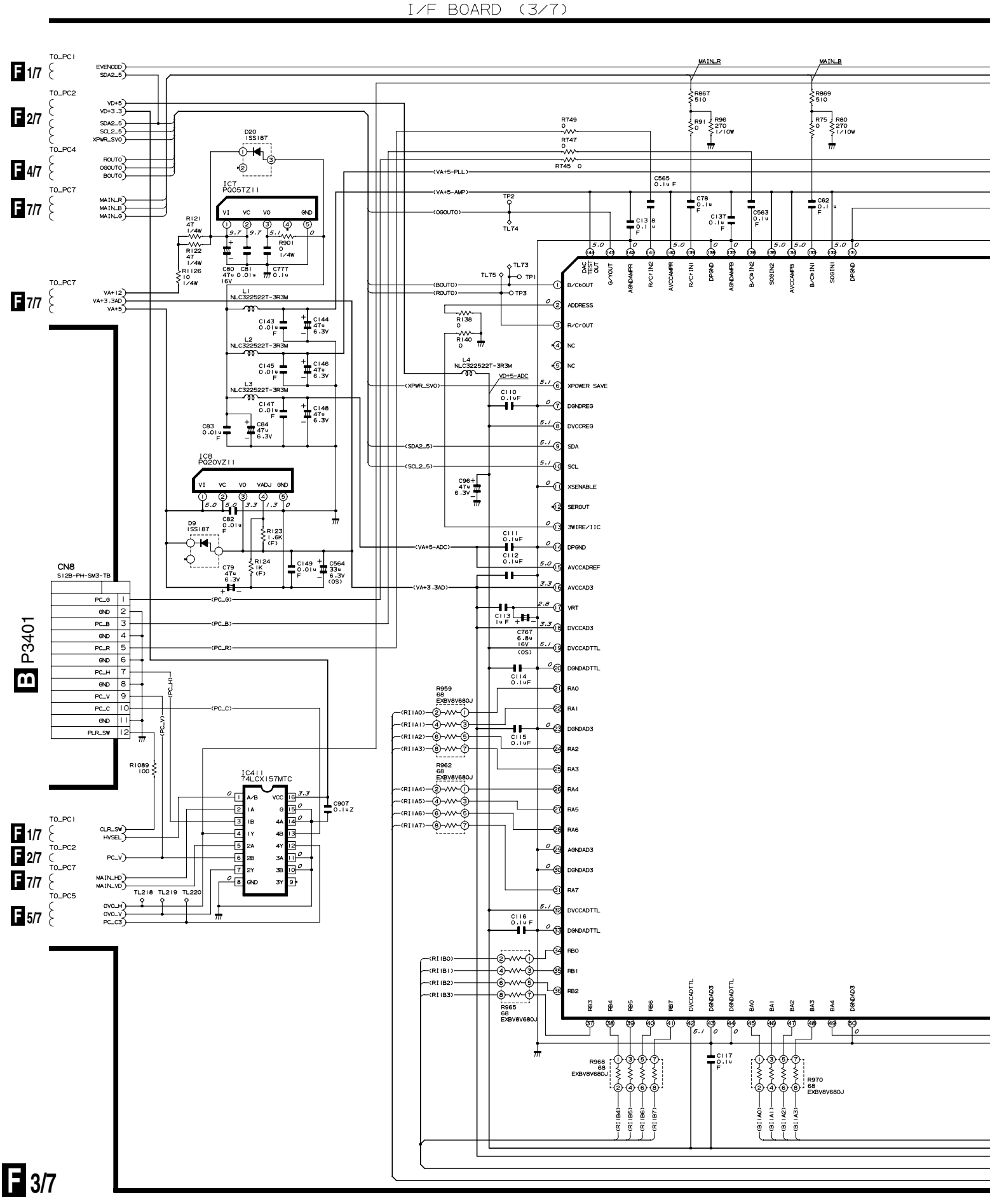
3.23 PC I/F UNIT (2/7)





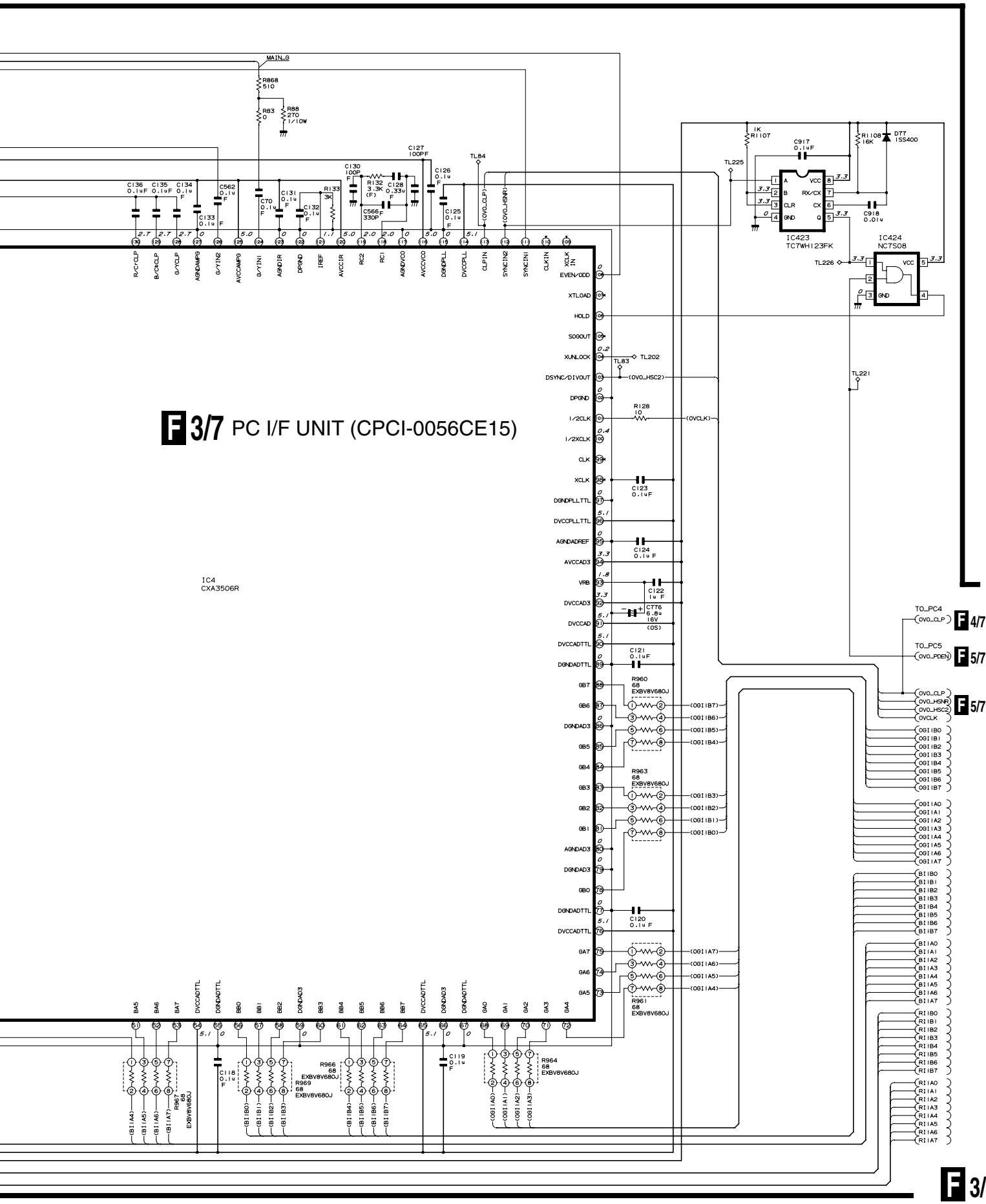
F 2/7 PC I/F UNIT (CPCI-0056CE15)

3.24 PC I/F UNIT (3/7)

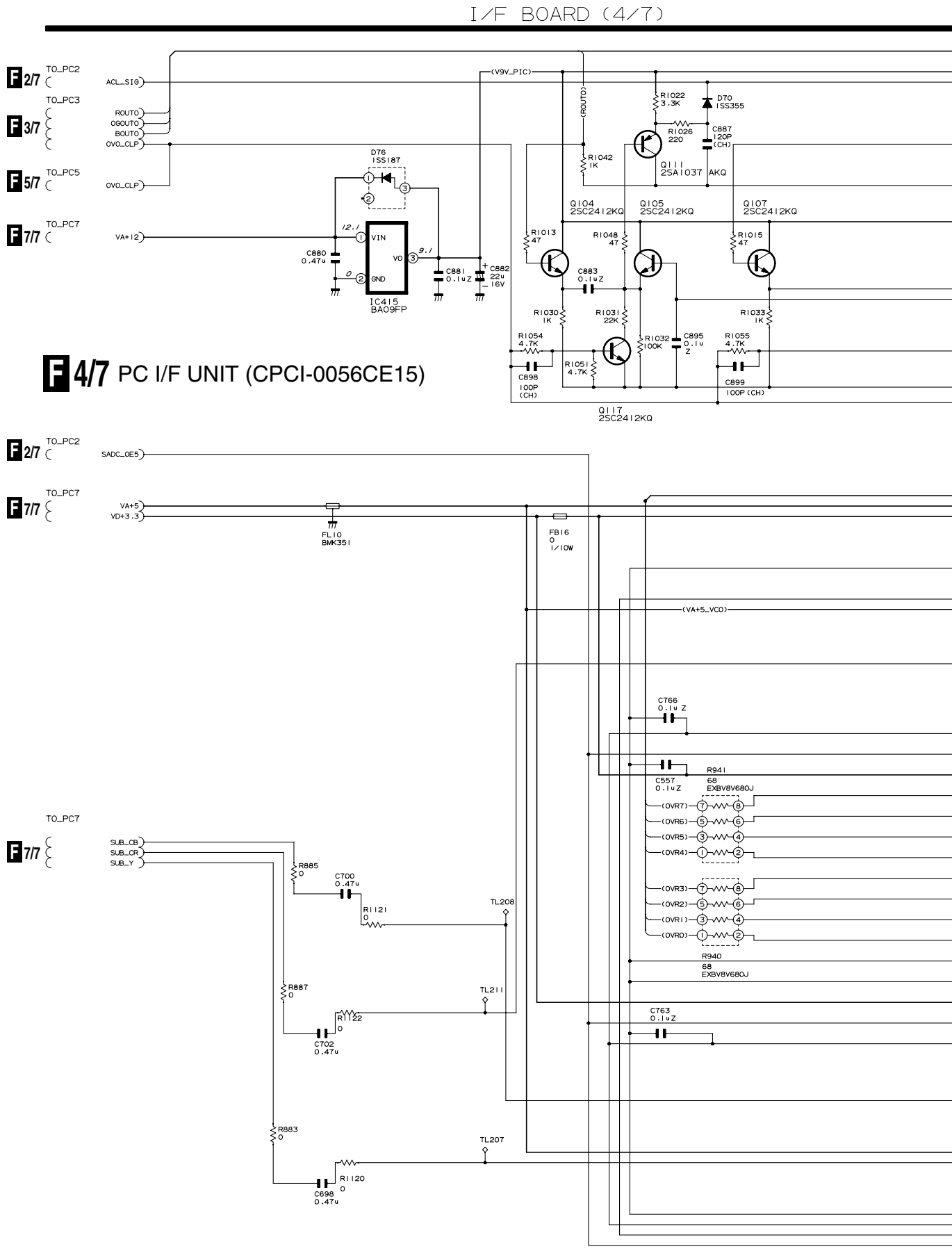


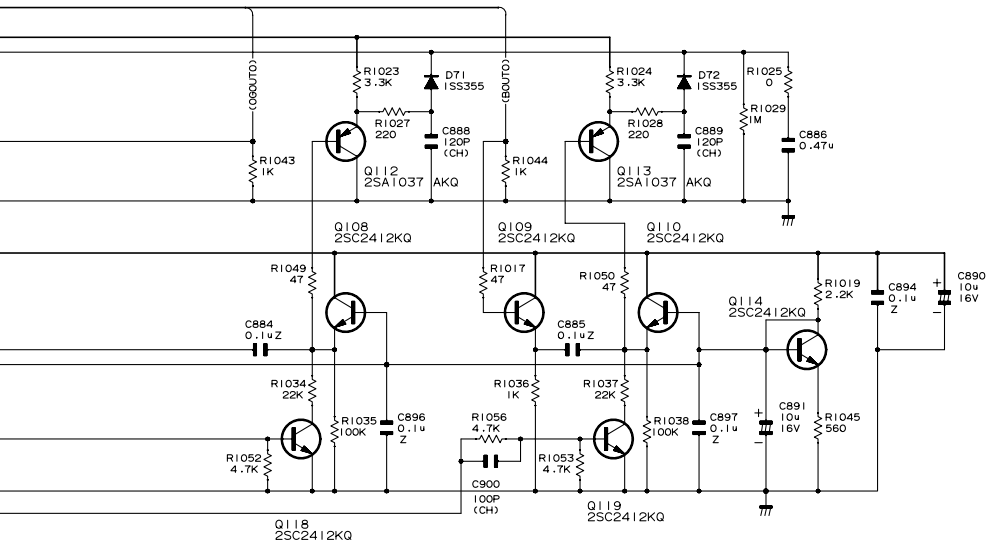
F 3/7

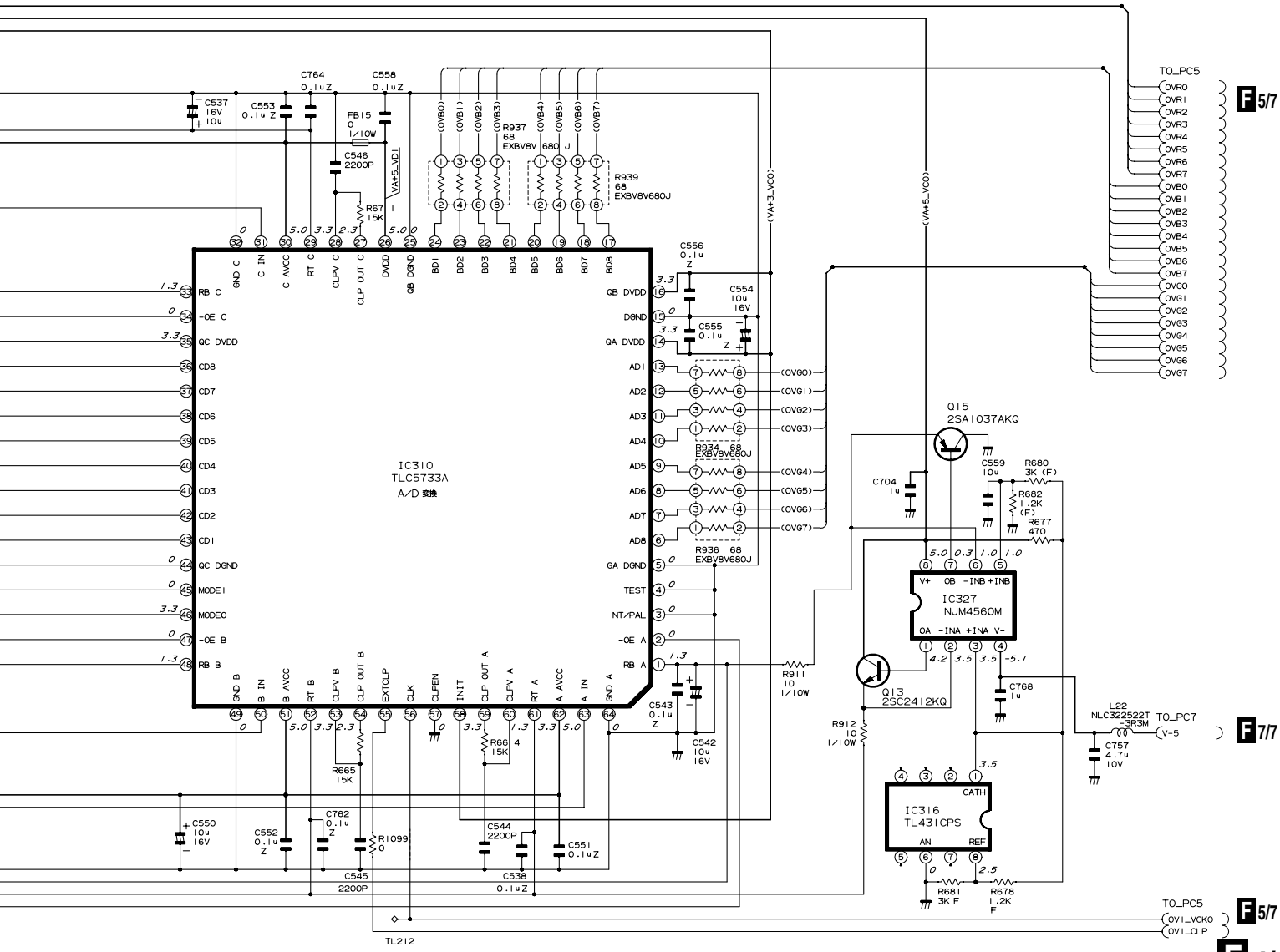
F 3/7 PC I/F UNIT (CPCI-0056CE15)



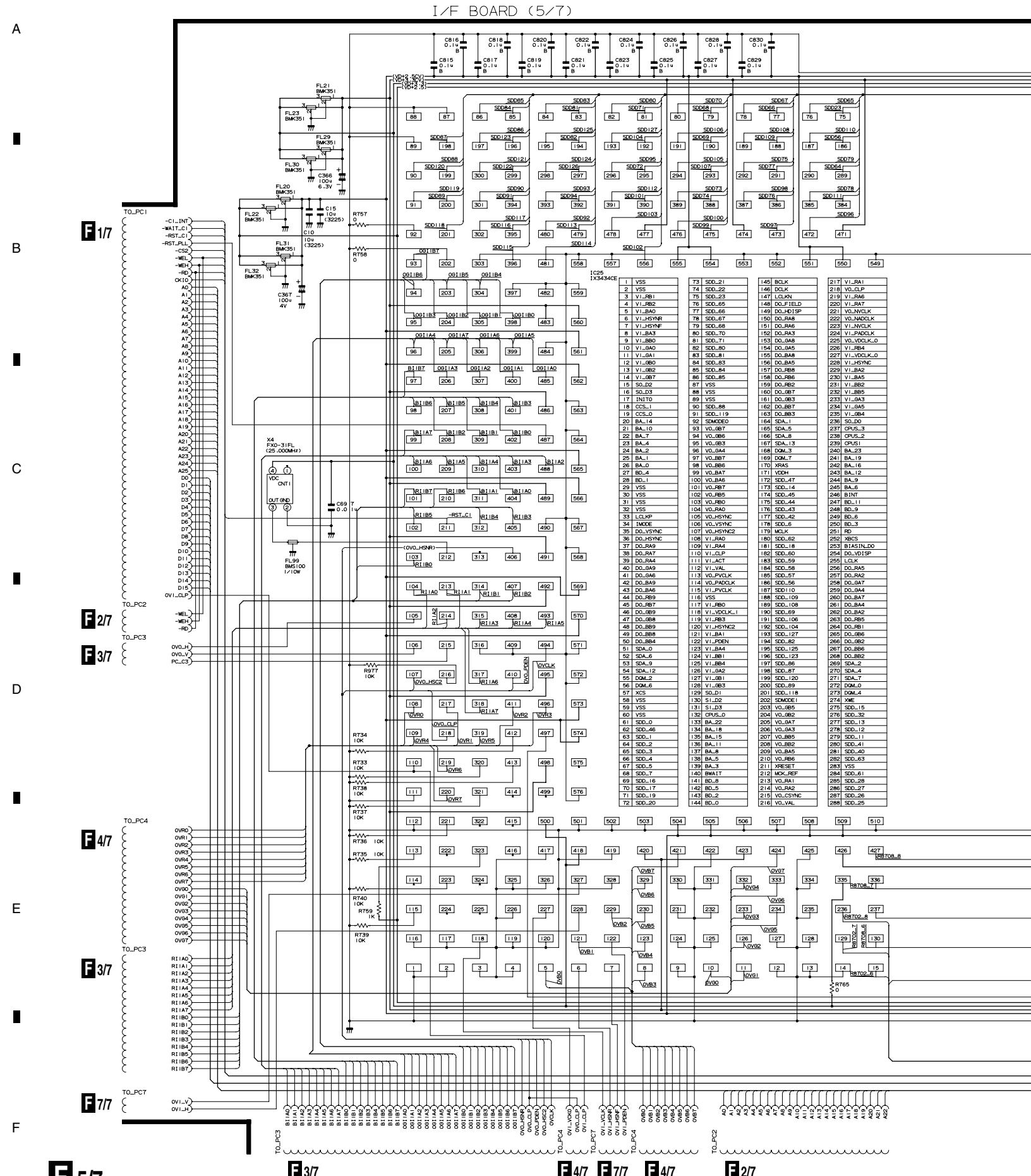
3.25 PC I/F UNIT (4/7)



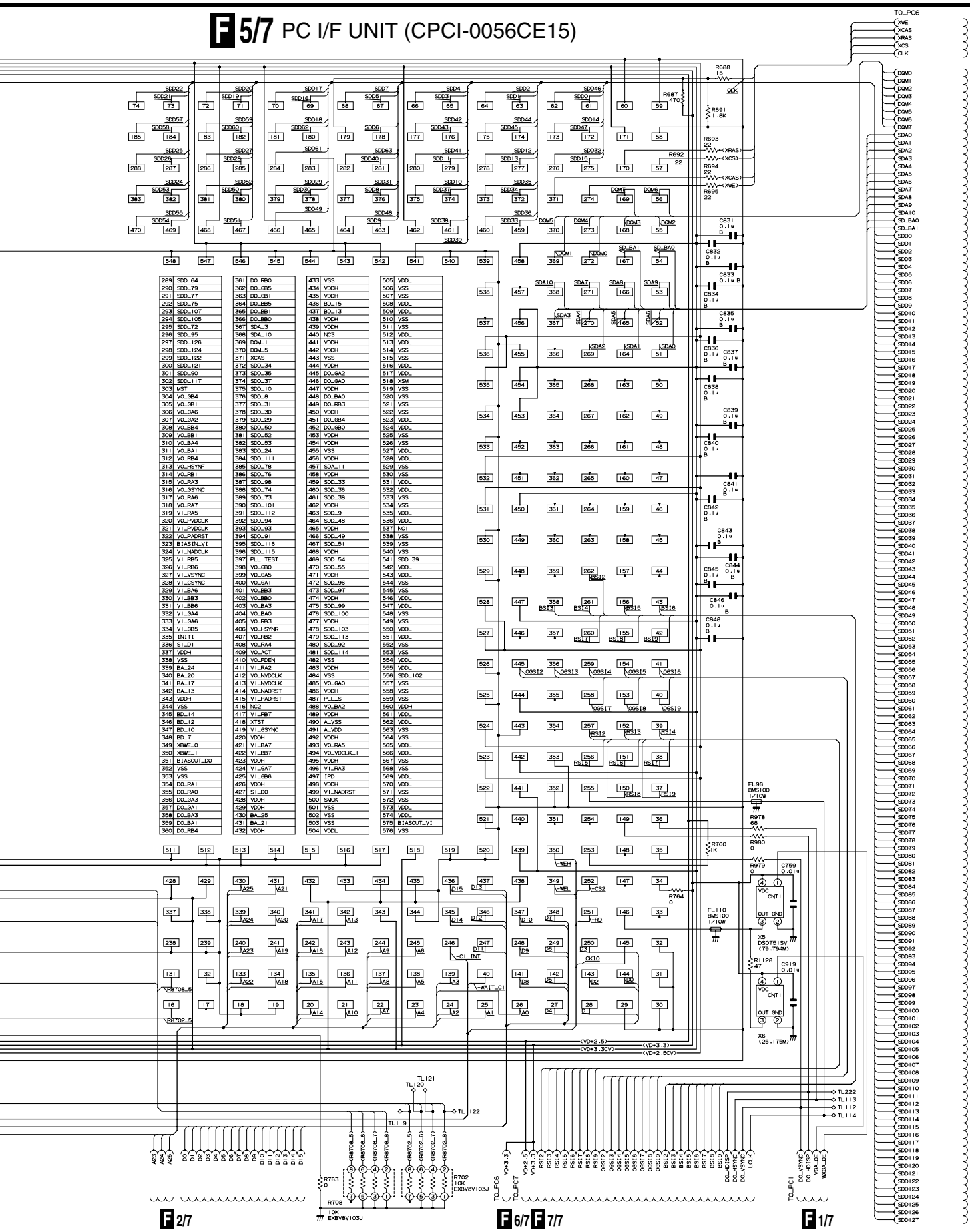

(OGOUT)
(BOUT)
R1023 3.3K
D71 1SS355
R1024 3.3K
D72 1SS355
R1025 0
R1029 1M
C886 0.47u
R1027 220
C888 120P (CH)
R1028 220
C889 120P (CH)
R1043 1K
R1044 1K
Q112 2SA1037 AKQ
Q113 2SA1037 AKQ
Q108 2SC2412KQ
Q109 2SC2412KQ
Q110 2SC2412KQ
Q114 2SC2412KQ
R1049 47
R1017 47
R1050 47
R1019 2.2K
C894 0.1u Z
C890 10u 16V
C884 0.1uZ
C885 0.1uZ
R1034 22K
R1035 100K
C896 0.1u Z
R1036 1K
R1037 22K
R1038 100K
C897 0.1u Z
C891 10u 16V
R1045 560
R1056 4.7K
R1052 4.7K
R1053 4.7K
C900 100P (CH)
Q118 2SC2412KQ
Q119 2SC2412KQ


C764 0.1uZ
C558 0.1uZ
C537 16V 10u
C553 0.1u Z
FB15 0 1/10W
C546 2200P
R67 15K
(VA+5_VDI)
(VA+3_VCO)
(VA+5_VCO)
R937 68 EXBV8V 680 J
R939 68 EXBV8V680J
(OVB0)
(OVB1)
(OVB2)
(OVB3)
(OVB4)
(OVB5)
(OVB6)
(OVB7)
C556 0.1u Z
C554 10u 16V
C555 0.1u Z
IC310 TLC5733A A/D 変換
GND C
C IN
C AVCC
RT C
CLPV C
CLP OUT C
DVDD
GB DGND
BD1
BD2
BD3
BD4
BD5
BD6
BD7
BD8
RB C
-OE C
QC DVDD
CD8
CD7
CD6
CD5
CD4
CD3
CD2
CD1
QC DGND
MODE1
MODE0
-OE B
RB B
GB DVDD
DGND
QA DVDD
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
GA DGND
TEST
NT/PAL
-OE A
RB A
GND B
B IN
B AVCC
RT B
CLPV B
CLP OUT B
EXTCLP
CLK
CLPEN
INIT
CLP OUT A
CLPV A
RT A
A AVCC
A IN
GND A
R936 68 EXBV8V680J
R934 68 EXBV8V680J
(OVG0)
(OVG1)
(OVG2)
(OVG3)
(OVG4)
(OVG5)
(OVG6)
(OVG7)
C543 0.1u Z
C542 10u 16V
R665 15K
R666 15K
C550 10u 16V
C552 0.1u Z
C762 0.1u Z
R1099 0
C545 2200P
C544 2200P
C538 0.1uZ
C551 0.1uZ
TL212
TO_PC5
OVR0
OVR1
OVR2
OVR3
OVR4
OVR5
OVR6
OVR7
OVB0
OVB1
OVB2
OVB3
OVB4
OVB5
OVB6
OVB7
OVG0
OVG1
OVG2
OVG3
OVG4
OVG5
OVG6
OVG7
F 5/7
Q15 2SA1037AKQ
C704 1u
C559 10u
R680 3K (F)
R682 1.2K (F)
R677 470
IC327 NJM4560M
V+ OB -INB +INB
OA -INA +INA V-
Q13 2SC2412KQ
R911 10 1/10W
R912 10 1/10W
C768 1u
L22 NLC322522T -3R3M
TO_PC7
(V-5)
F 7/7
C757 4.7u 10V
IC316 TL431CPS
CATH
AN
REF
R681 3K F
R678 1.2K F
TO_PC5
OVI_VCKO
OVI_CLP
F 5/7
F 4/7

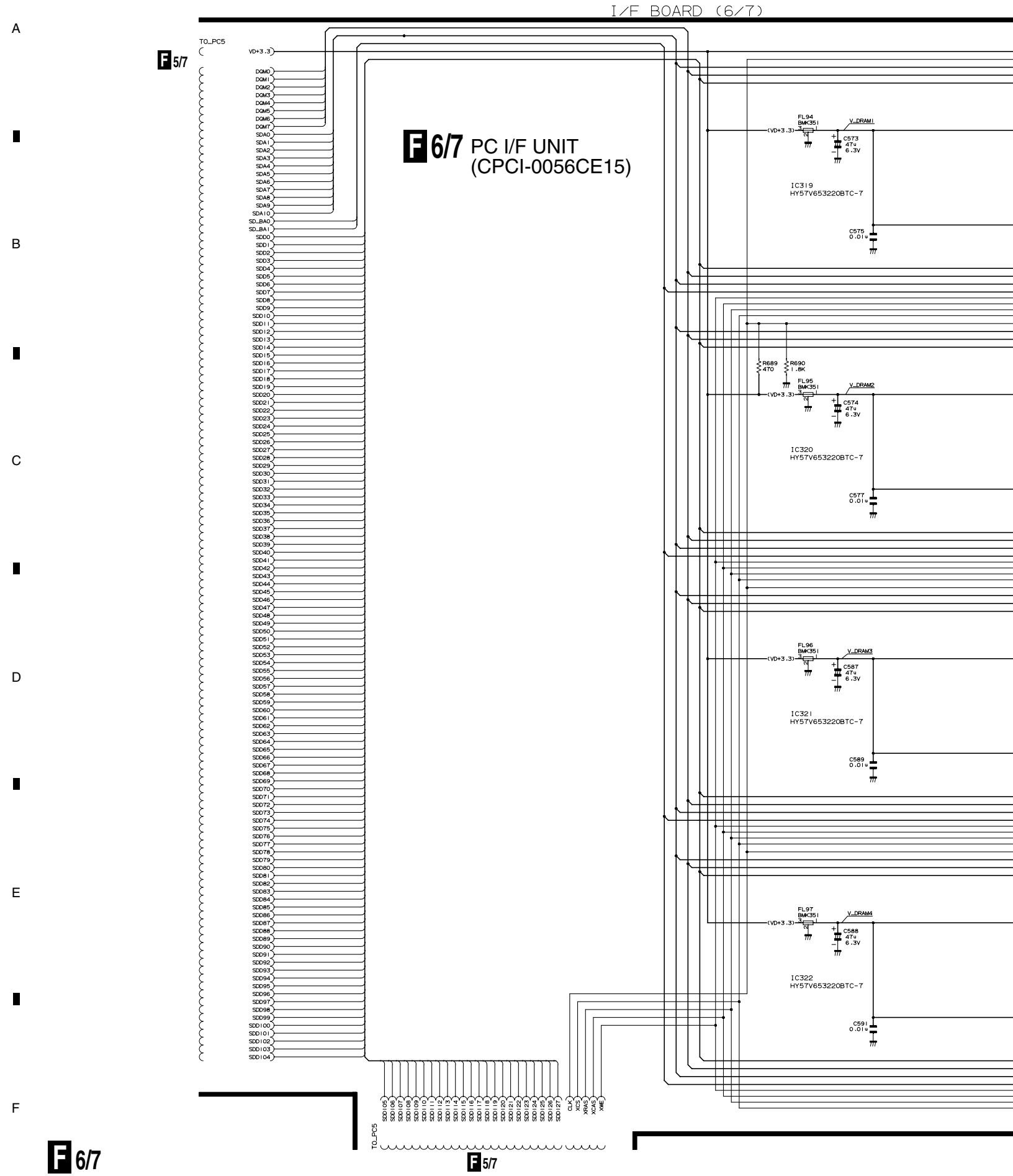
3.26 PC I/F UNIT (5/7)



F 5/7 PC I/F UNIT (CPCI-0056CE15)



3.27 PC I/F UNIT (6/7)



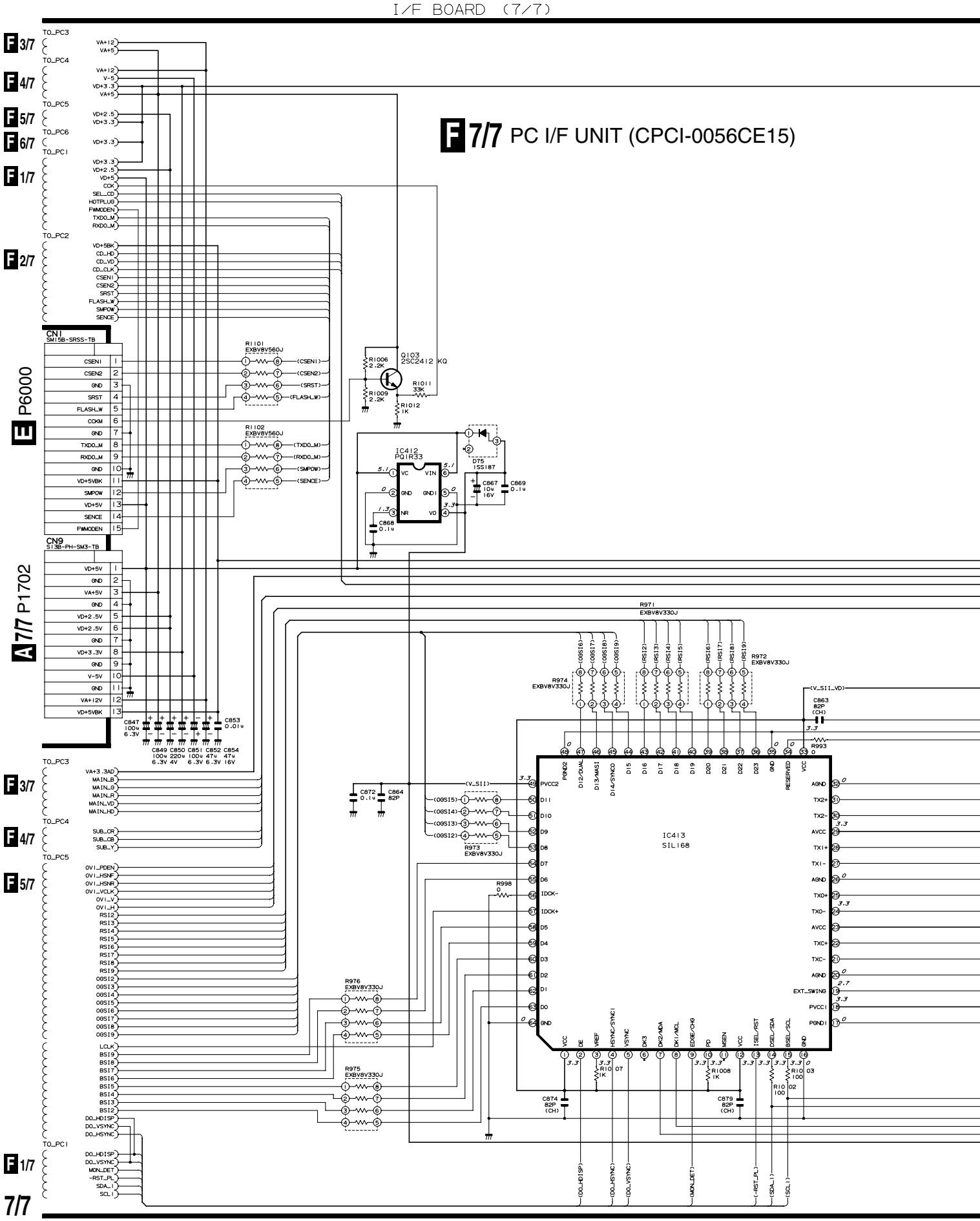
TO_PC7
VD+3.3

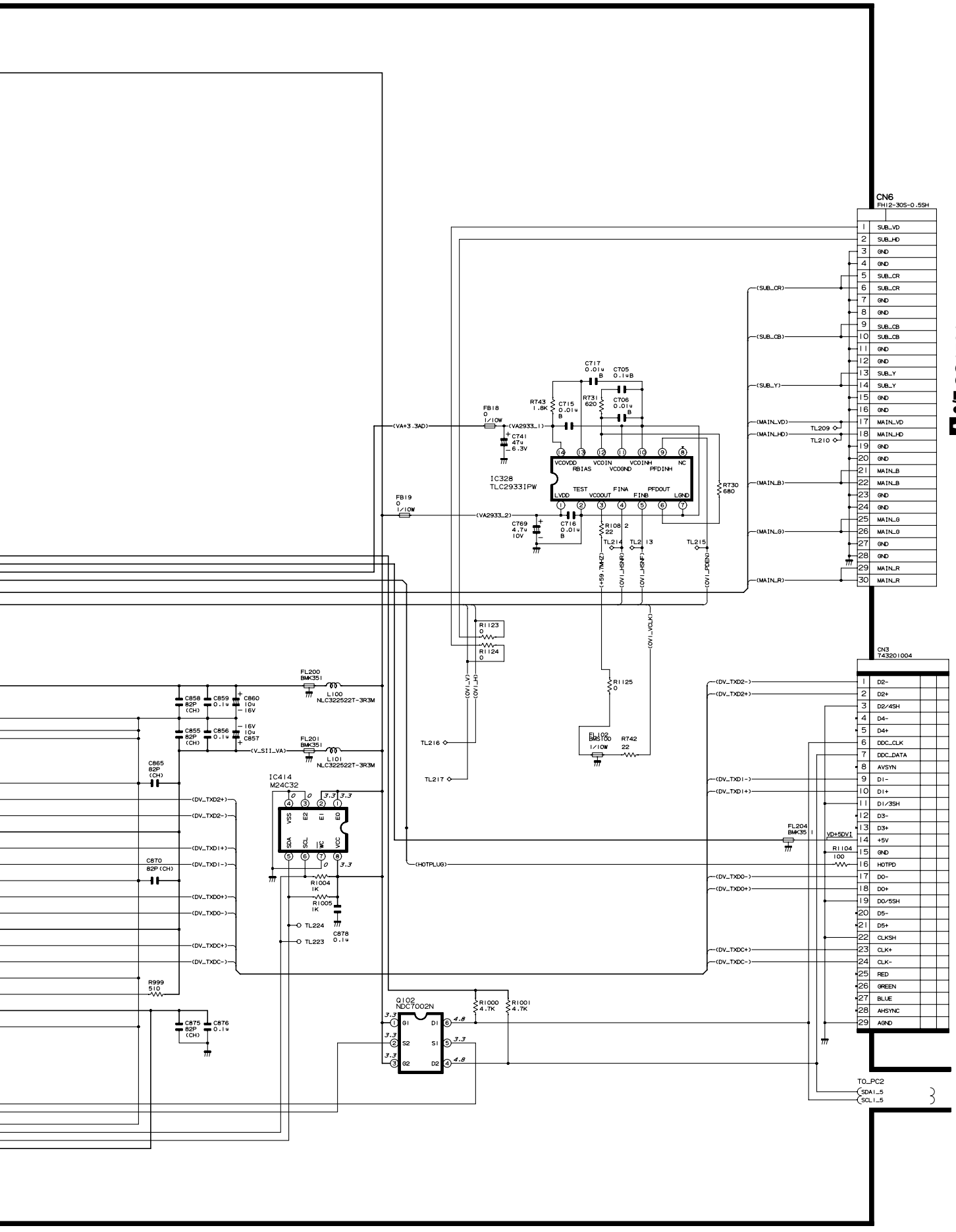
F 7/7

R696 10K
R697 10K
R698 10K
R699 10K
C576 0.01u
C578 0.01u
C579 0.01u
C580 0.01u
C581 0.01u
C582 0.01u
C583 0.01u
C584 0.01u
C585 0.01u
C586 0.01u
C590 0.01u
C592 0.01u
C593 0.01u
C594 0.01u
C595 0.01u
C596 0.01u
C597 0.01u
C598 0.01u
C599 0.01u
C600 0.01u
VSS VSSQ DQI3 DQI2 VSSQ DQ9 DQ8 VSS NC CLK A9 A7 A5 A3 VSS DQ31 DQ30 VSSQ DQ27 DQ26 VSSQ VSS
DQI5 DQI4 VCCQ DQI1 DQI0 VCCQ NC DQMI NC CKE A8 A6 A4 DQM3 NC VCCQ DQ29 DQ28 VCCQ DQ25 DQ24
DQ0 DQ1 VSSQ DQ4 DQ5 VSSQ NC DQM0 /CAS /CS BA0 A10(AP) A1 DQM2 NC VSSQ DQ18 DQ19 VSSQ DQ22 DQ23
VCC VCCQ DQ2 DQ3 VCCQ DQ6 DQ7 VCC /WE /RAS NC BA1 A0 A2 VCC DQ16 DQ17 VCCQ DQ20 DQ21 VCCQ VCC

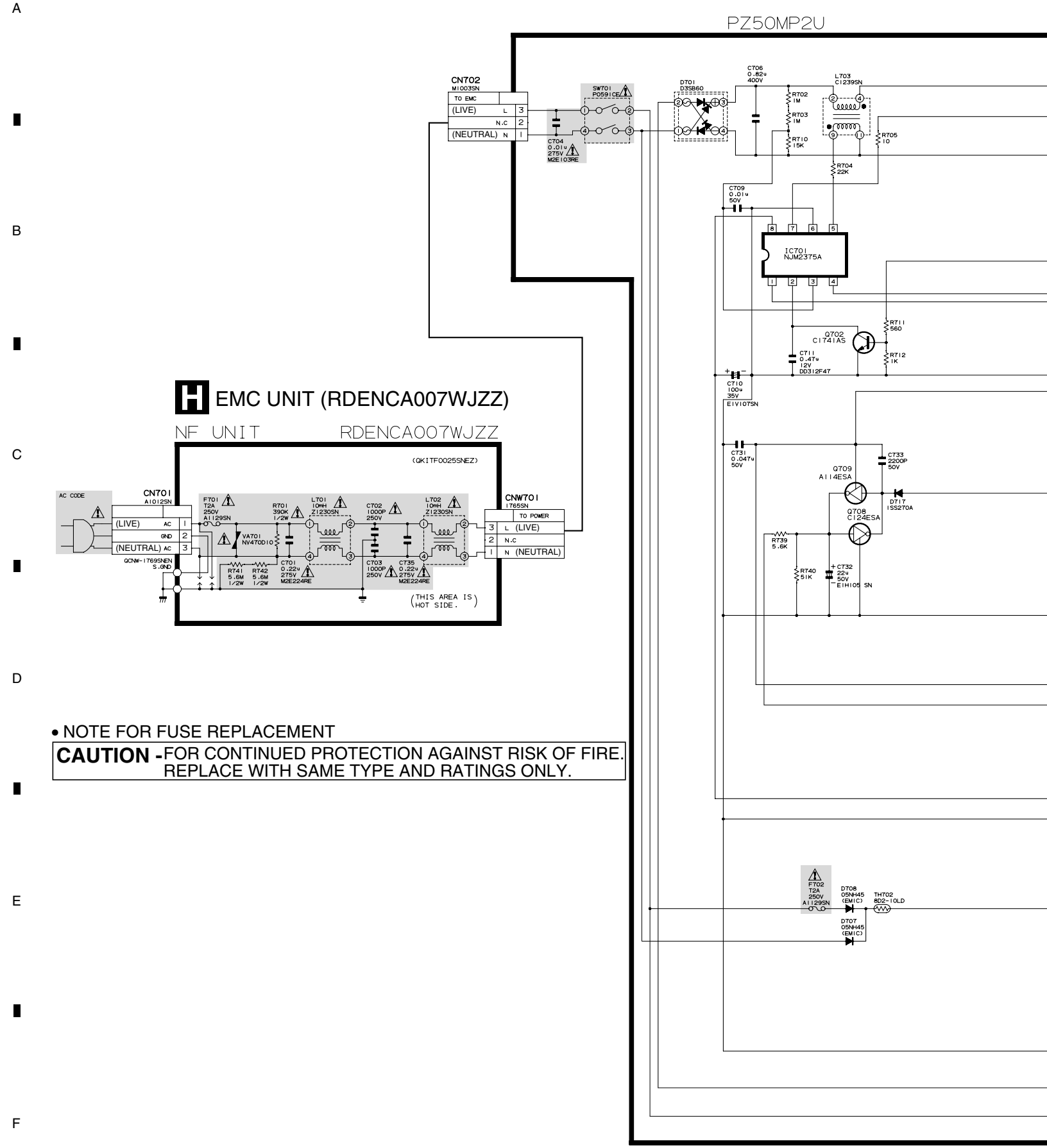
PDP-R03U

3.28 PC I/F UNIT (7/7)




CN6
FH12-30S-0.5SH
SUB_VD
SUB_HD
GND
SUB_CR
SUB_CB
SUB_Y
MAIN_VD
MAIN_HD
MAIN_B
MAIN_G
MAIN_R
IC328
TLC2933IPW
VCOVDD
RBIAS
VCOIN
VCOGND
VCOINH
PFDINH
NC
TEST
FINA
PFDOUT
LVDD
VCOOUT
FINB
LGND
CN3
T43201004
D2-
D2+
D2/4SH
D4-
D4+
DDC_CLK
DDC_DATA
AVSYN
D1-
D1+
D1/3SH
D3-
D3+
+5V
GND
HOTPD
D0-
D0+
D0/5SH
D5-
D5+
CLKSH
CLK+
CLK-
RED
GREEN
BLUE
AHSYNC
AGND
IC414
M24C32
Q102
NDC7002N
TO_PC2
SDA1_5
SCL1_5
A 6/7 SC1501
F 2/7
F 7/7

3.29 POWER and EMC UNITS

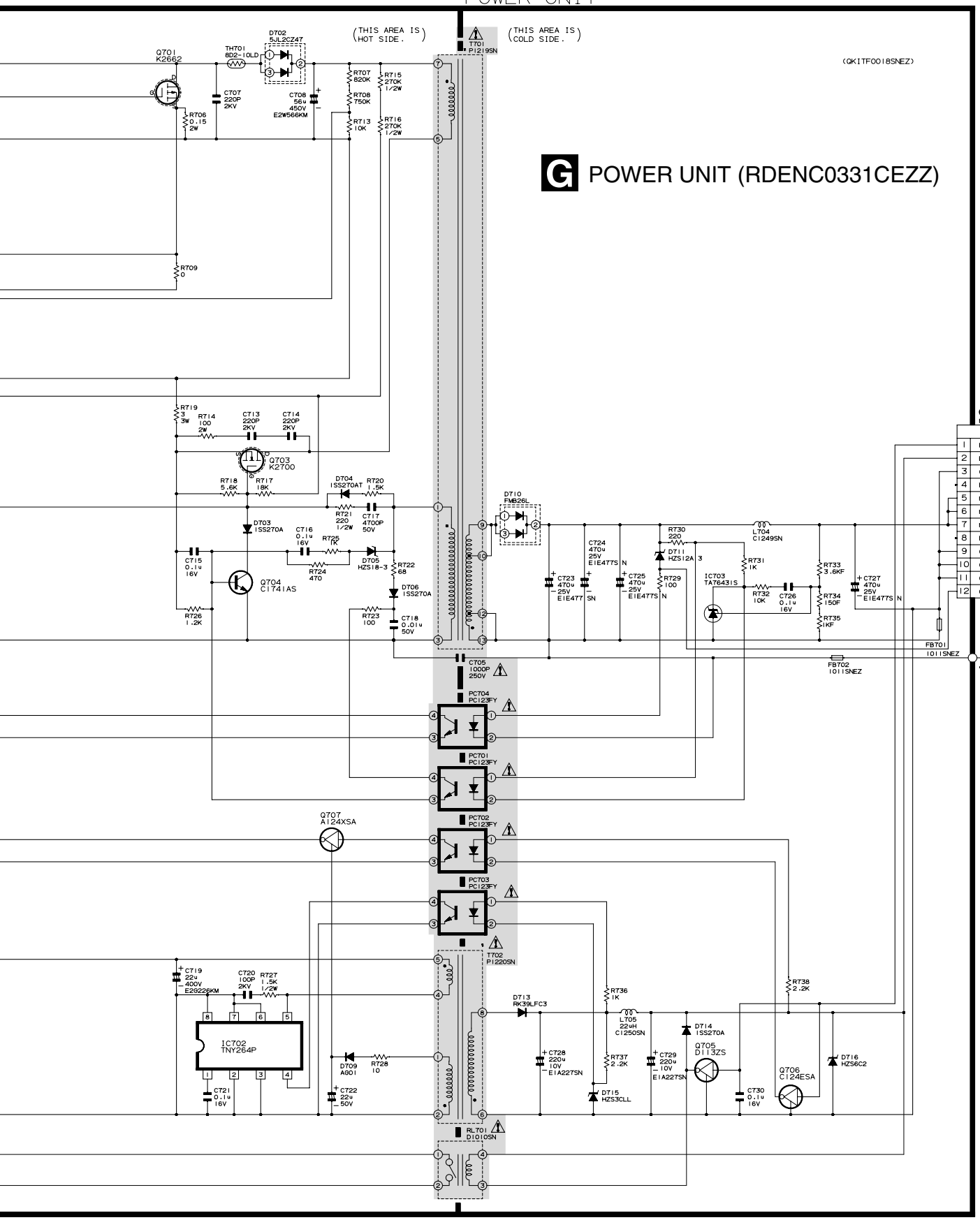


H EMC UNIT (RDENCA007WJZZ)

- NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

POWER UNIT RDENC0331CEZZ



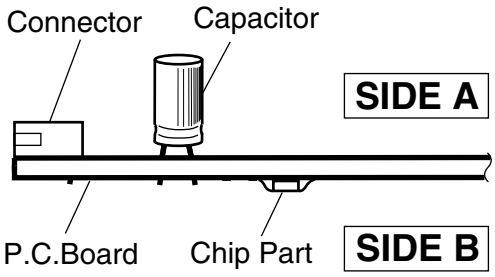
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

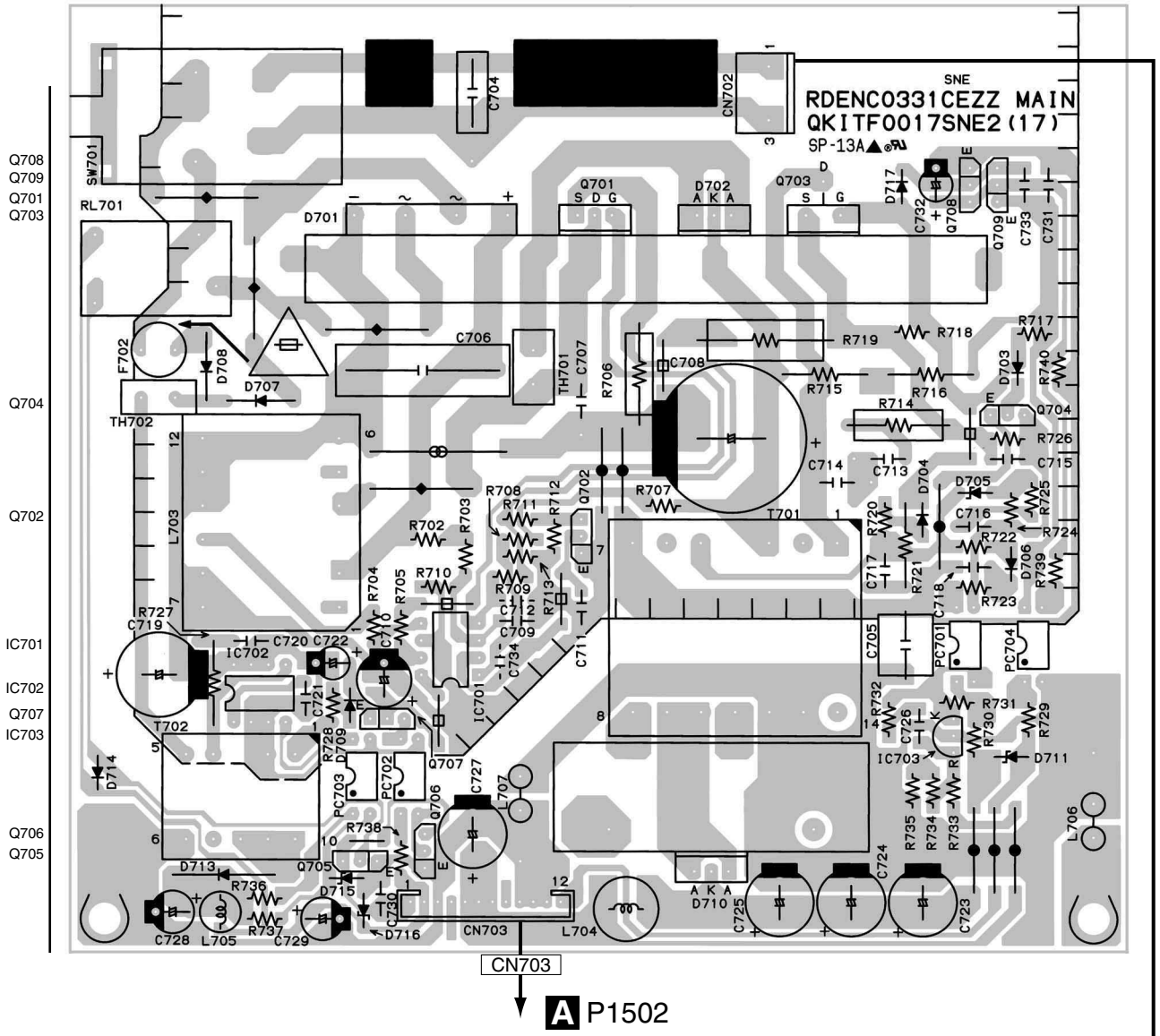


4.1 POWER and EMC UNITS

SIDE A

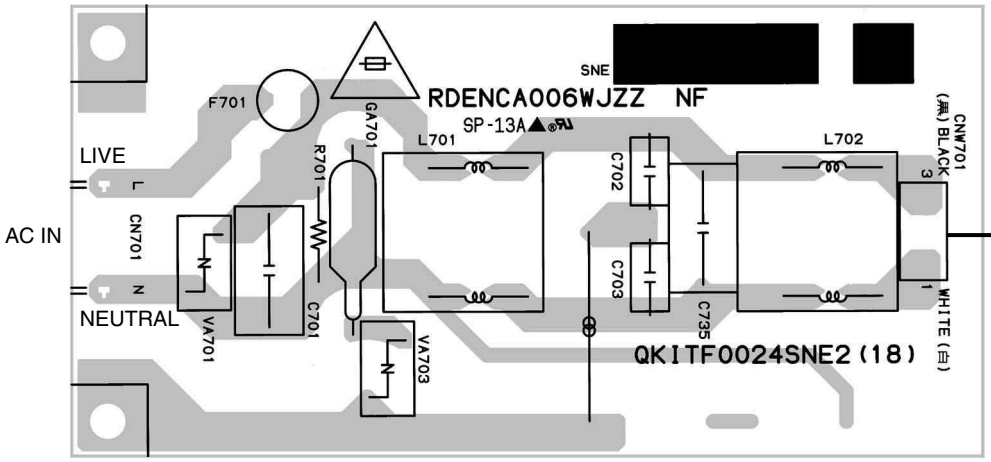
SIDE A

G POWER UNIT



A P1502

H EMC UNIT



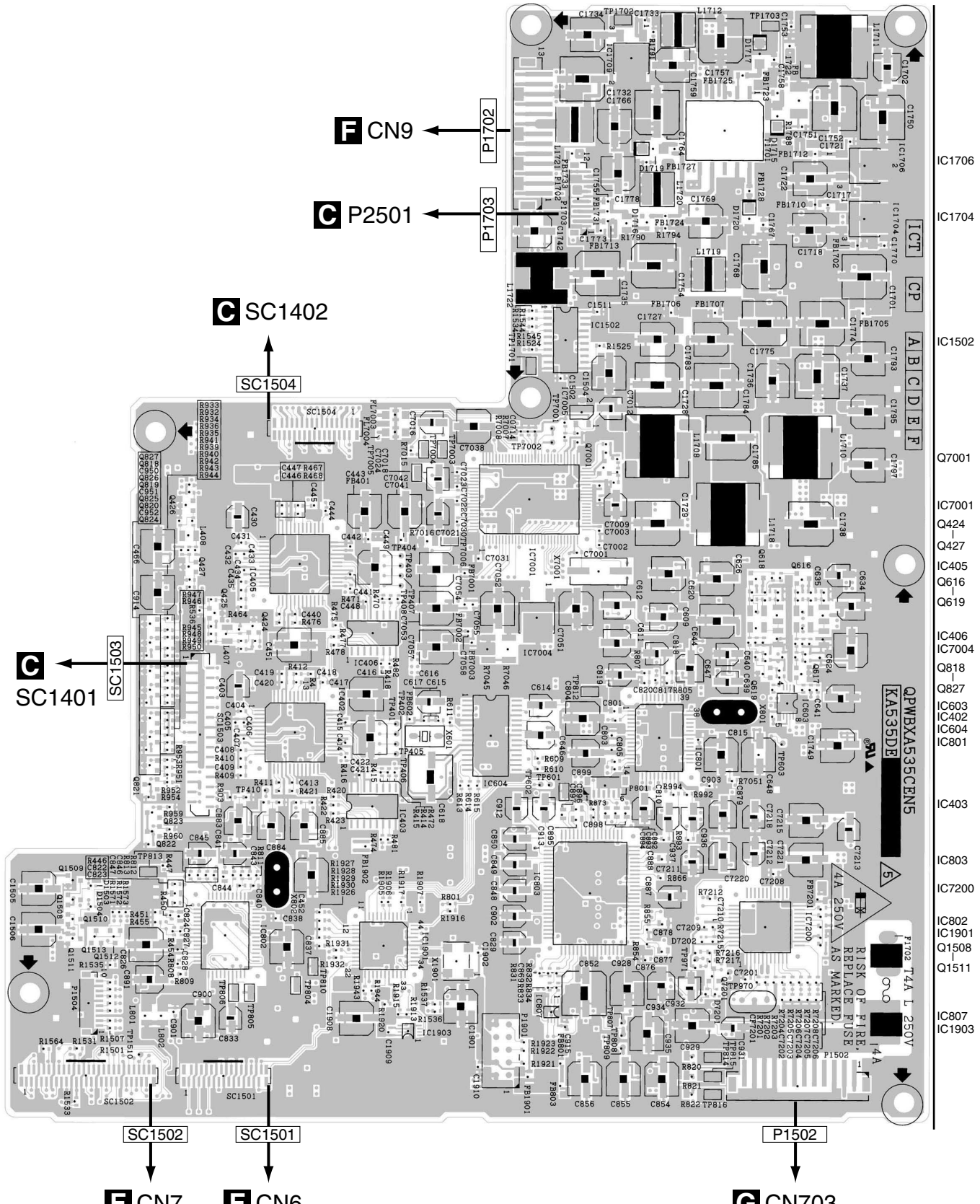
G H

G H

4.2 MAIN UNIT

SIDE A **SIDE A**

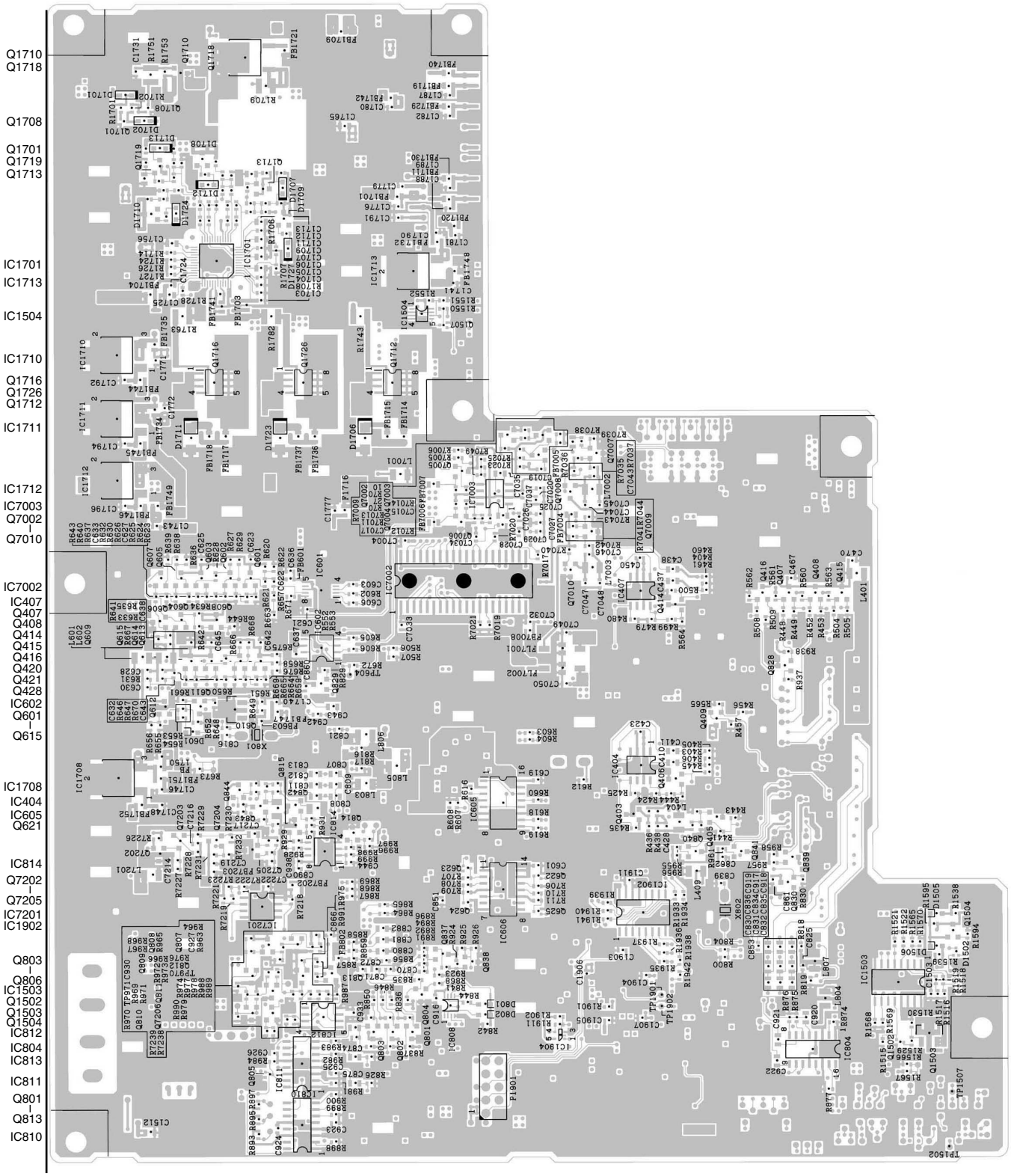
A MAIN UNIT



SIDE B

SIDE B

A MAIN UNIT



A

A

4.3 FRONT, LED and SR CONNECT UNIT

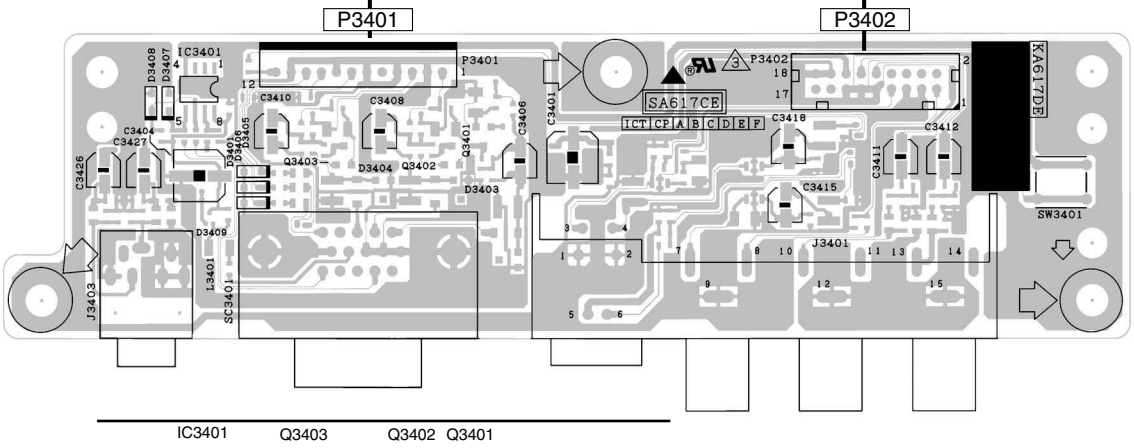
SIDE A

SIDE A

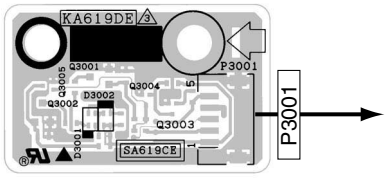
B FRONT UNIT

F CN8

C P1301

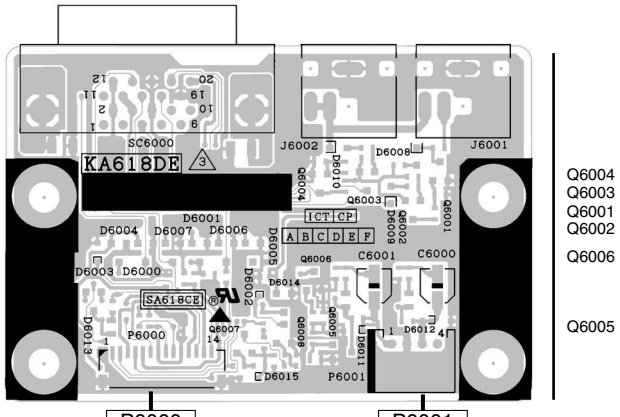


D LED UNIT



C P2503

E SR CONNECT UNIT



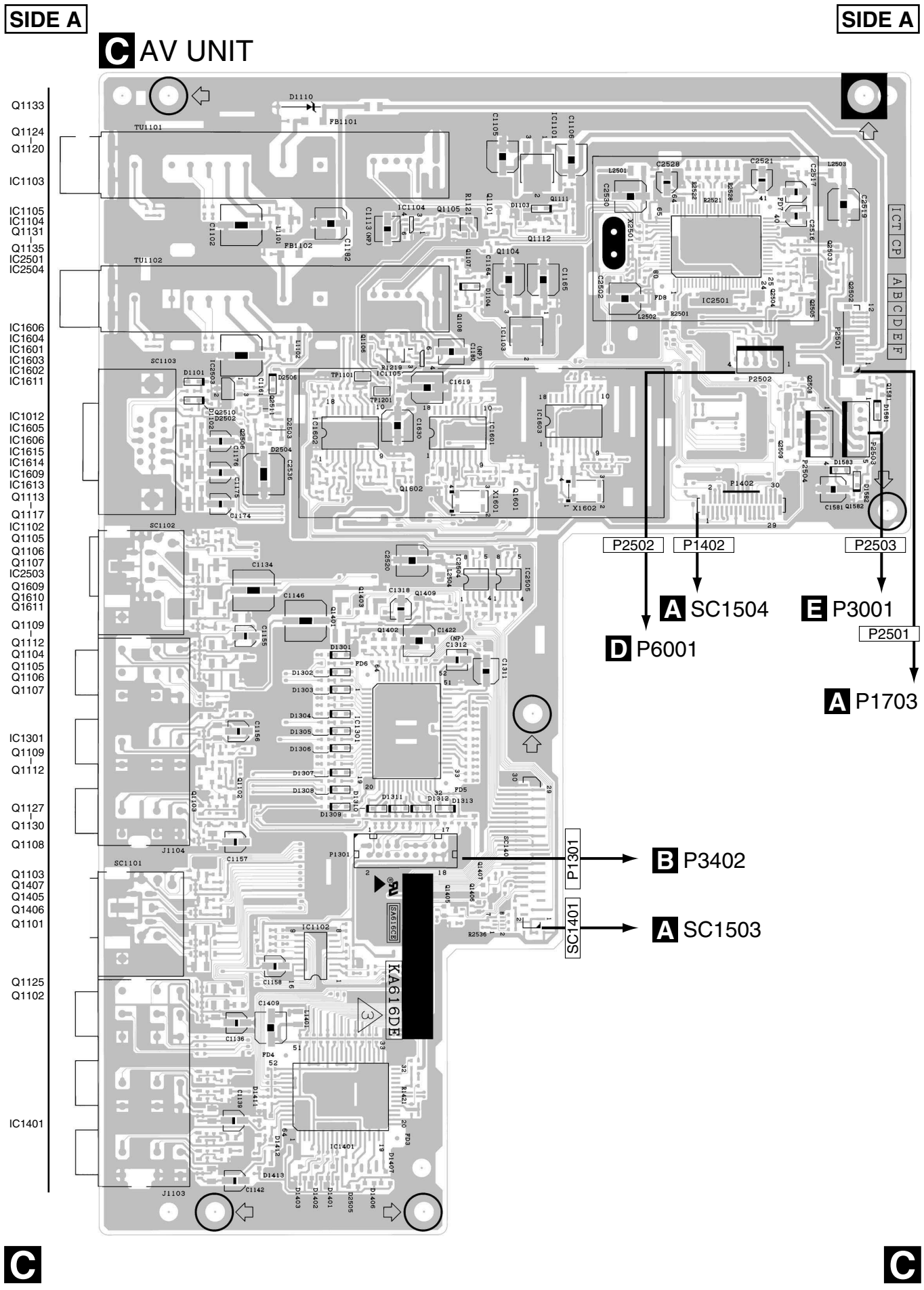
F CN1

C P2502

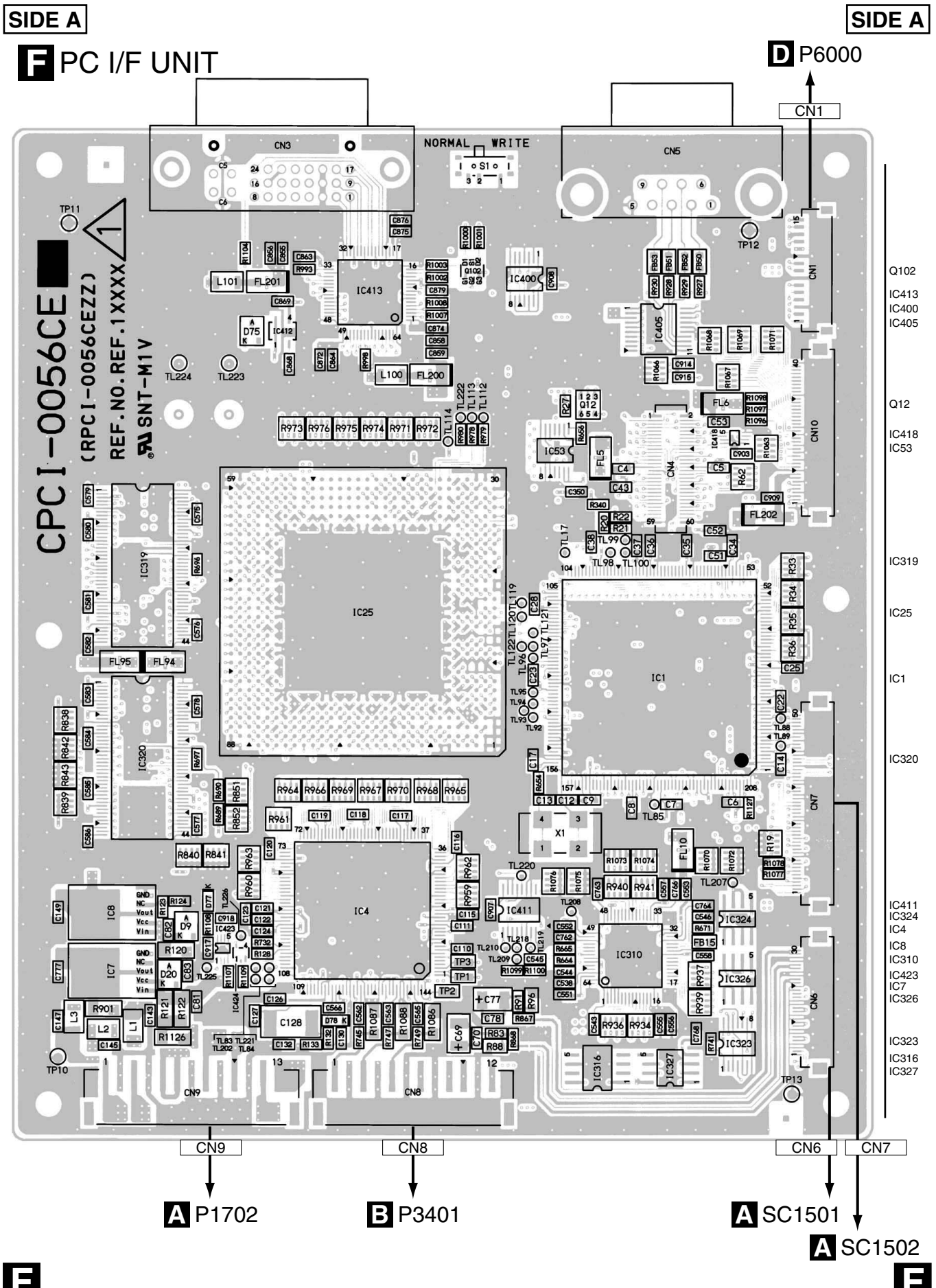
B D E

B D E

4.4 AV UNIT


SIDE A
SIDE A
C AV UNIT
Q1133
Q1124
Q1120
IC1103
IC1105
IC1104
Q1131
Q1135
IC2501
IC2504
IC1606
IC1604
IC1601
IC1603
IC1602
IC1611
IC1012
IC1605
IC1606
IC1615
IC1614
IC1609
IC1613
Q1113
Q1117
IC1102
Q1105
Q1106
Q1107
IC2503
Q1609
Q1610
Q1611
Q1109
Q1112
Q1104
Q1105
Q1106
Q1107
IC1301
Q1109
Q1112
Q1127
Q1130
Q1108
Q1103
Q1407
Q1405
Q1406
Q1101
Q1125
Q1102
IC1401
ICT CP
A B C D E F
P2502
P1402
P2503
A SC1504
E P3001
D P6001
P2501
A P1703
P1301
B P3402
SC1401
A SC1503
KA616DE
SAF16CP

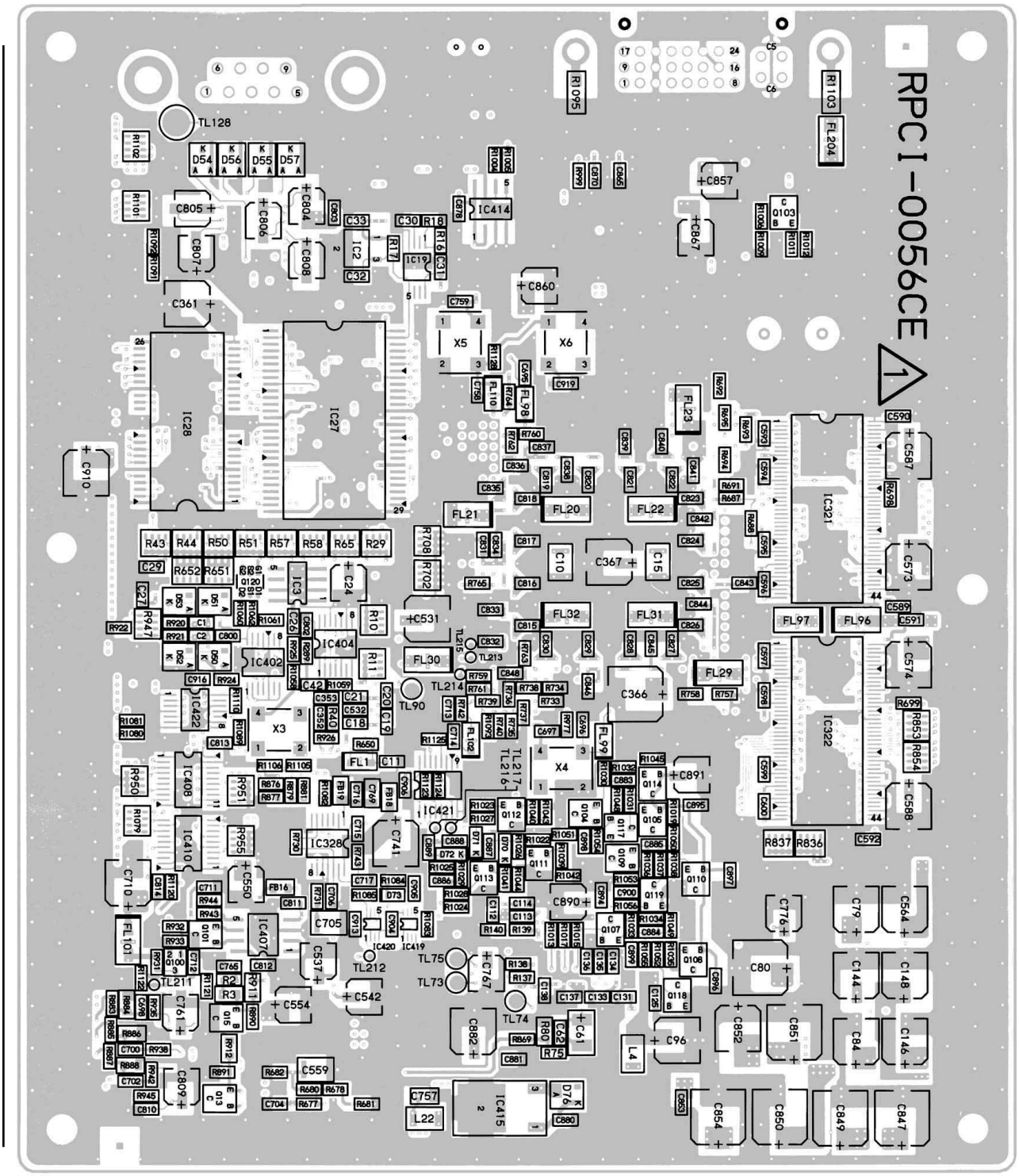
4.5 PC I/F UNIT


SIDE A
SIDE A
F PC I/F UNIT
D P6000
CN1
CPC1-0056CE
(RPC1-0056CEZZ)
REF.NO.REF.1XXXX
SNT-M1V
NORMAL WRITE
S1
CN3
CN5
TP11
TP12
TP10
TP13
TL224
TL223
L101
FL201
L100
FL200
IC413
IC400
IC405
IC53
IC25
IC1
IC319
IC320
IC4
IC8
IC7
IC411
IC324
IC326
IC323
IC316
IC327
IC310
X1
Q102
Q12
IC418
CN4
CN10
CN6
CN7
CN8
CN9
A P1702
B P3401
A SC1501
A SC1502
F
F

SIDE B

SIDE B

F PC I/F UNIT



F

F

5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→ *56 x 10¹* →	*561*	····· *RD1/4PU 5 6 1 J*
47k Ω	→ *47 x 10³* →	*473*	····· *RD1/4PU 4 7 3 J*
0.5 Ω	→ *R50*		····· *RN2H R 5 0 K*
1 Ω	→ *1R0*		····· *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→ *562 x 10¹* →	*5621*	····· *RN1/4PC 5 6 2 1 F*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN UNIT	DUNTKA535DE04
	1	FRONT UNIT	DUNTKA617DE01
	1	AV UNIT	DUNTKA616DE01
	1	LED UNIT	DUNTKA619DE01
	1	SR UNIT	DUNTKA618DE01
	1	PC I/F UNIT	CPCI-0056CE15
	1	POWER UNIT	RDENC0331CEZZ
	1	EMC UNIT	RDENCA007WJZZ

A MAIN UNIT

IC

Mark	No.	Description	Part No.
	IC402	CXD2093Q	VHiCXD2093Q-1Q
	IC403	M62320FP	VHiM62320FP-1
	IC404	MI6428	VHiML6428C1-1Y
	IC604	TA1318AF	VHiTA1318AF-1Y
	IC801	TB1274AF	VHiTB1274AF-1Q
	IC802	TB1274AF	VHiTB1274AF-1Q
	IC803	CXA2101AQ-TI	VHiCXA2101Q-1
	IC804	MI6426CS-1	RH-iX3473CEZZ
	IC807	TC7W34FU	VHiTC7W34U/-1Y
	IC808	TC7W34FU	VHiTC7W34U/-1Y
	IC810	MI6426CS-1	RH-iX3473CEZZ
	IC811	MI6426CS-4	RH-iX3474CEZZ
	IC812	NJM353M	VHiNJM353M/-1
	IC814	BA7655AF	VHiBA7655AF-1
	IC1502	M62393FP	VHiM62393FP-1
	IC1503	M62320FP	VHiM62320FP-1
	IC1504	TC7W53FU	VHiTC7W53U/-1
	IC1701	FA3675F	VHiFA3675F/-1
	IC1704	BA09FP-E2	VHiBA09T/FP-1
	IC1706	BA08FP	VHiBA08FP++-1Y
	IC1708	BA05FP	VHiBA05FP++-1Y
	IC1709	BA05FP	VHiBA05FP++-1Y
	IC1710	BA05FP	VHiBA05FP++-1Y
	IC1711	BA05FP	VHiBA05FP++-1Y
	IC1712	BA05FP	VHiBA05FP++-1Y
	IC1713	BA12FP-E2	VHiBA12FP++-1Y
	IC1901	I.C.	RH-iXA194WJZZQ
	IC1902	M62320FP	VHiM62320FP-1
	IC1903	TC7W34FU	VHiTC7W34U/-1Y
	IC7001	UPD64082GF-3BA	VHiPD64082/-1S
	IC7002	MSM514265C50JS	RH-IX3152CEZZY
	IC7003	MI6428	VHiML6428C1-1Y
	IC7004	BA033FP-E2	VHiBA033FP/-1
	IC7005	PST600IMT	VHiPST600iM-1Y
	IC7200	IX3289CE	RH-iX3289CEZZ

TRANSISTOR

Mark	No.	Description	Part No.
	Q403	2SA1530AR	VS2SA1530AR-1
	Q405	2SA1530AR	VS2SA1530AR-1
	Q406	2SC3928AR	VS2SC3928AR-1
	Q407	2SC3928AR	VS2SC3928AR-1
	Q408	2SC3928AR	VS2SC3928AR-1
	Q424	2SA1530AR	VS2SA1530AR-1
	Q425	2SA1530AR	VS2SA1530AR-1
	Q601	2SC3928AR	VS2SC3928AR-1
	Q602	2SC3928AR	VS2SC3928AR-1
	Q603	2SC3928AR	VS2SC3928AR-1
	Q604	2SC3928AR	VS2SC3928AR-1
	Q605	2SC3928AR	VS2SC3928AR-1
	Q606	2SC3928AR	VS2SC3928AR-1
	Q607	2SC3928AR	VS2SC3928AR-1
	Q608	2SC3928AR	VS2SC3928AR-1
	Q609	2SC3928AR	VS2SC3928AR-1
	Q610	2SK1467	VS2SK1467//-1
	Q611	2SC3928AR	VS2SC3928AR-1
	Q612	2SC3928AR	VS2SC3928AR-1
	Q613	2SC3928AR	VS2SC3928AR-1
	Q614	2SC3928AR	VS2SC3928AR-1
	Q615	2SC3928AR	VS2SC3928AR-1
	Q616	2SC3928AR	VS2SC3928AR-1
	Q617	2SA1530AR	VS2SA1530AR-1
	Q801	2SA1530AR	VS2SA1530AR-1
	Q802	2SA1530AR	VS2SA1530AR-1
	Q803	2SA1530AR	VS2SA1530AR-1
	Q804	2SA1530AR	VS2SA1530AR-1
	Q805	DTC144EE	VSDTC144EE/-1
	Q807	2SC3928AR	VS2SC3928AR-1
	Q808	2SA1530AR	VS2SA1530AR-1
	Q809	2SC3928AR	VS2SC3928AR-1
	Q810	2SA1530AR	VS2SA1530AR-1
	Q811	2SA1530AR	VS2SA1530AR-1
	Q812	2SA1530AR	VS2SA1530AR-1
	Q813	DTC124EKA	VSDTC124EKA-1
	Q814	2SA1530AR	VS2SA1530AR-1
	Q815	2SA1530AR	VS2SA1530AR-1
	Q818	2SA1530AR	VS2SA1530AR-1
	Q819	2SA1530AR	VS2SA1530AR-1
	Q820	2SA1530AR	VS2SA1530AR-1
	Q821	2SC2735	VS2SC2735//1E
	Q822	2SC2735	VS2SC2735//1E

Mark No.	Description	Part No.
Q823	2SC2735	VS2SC2735//1E
Q824	2SA1530AR	VS2SA1530AR-1
Q825	2SA1530AR	VS2SA1530AR-1
Q826	2SA1530AR	VS2SA1530AR-1
Q827	2SA1530AR	VS2SA1530AR-1
Q828	2SA1530AR	VS2SA1530AR-1
Q830	2SC3928AR	VS2SC3928AR-1
Q837	2SC3928AR	VS2SC3928AR-1
Q838	2SA1530AR	VS2SA1530AR-1
Q839	2SC2735	VS2SC2735//1E
Q840	2SC2735	VS2SC2735//1E
Q841	2SC2735	VS2SC2735//1E
Q842	2SC3928AR	VS2SC3928AR-1
Q843	2SC3928AR	VS2SC3928AR-1
Q844	2SC3928AR	VS2SC3928AR-1
Q1502	DTC144EE	VSDTC144EE/-1
Q1503	2SB1132Q	VS2SB1132Q/-1
Q1504	2SC3928AR	VS2SC3928AR-1
Q1507	DTC144EE	VSDTC144EE/-1
Q1508	DTA124EKA	VSDTA124EKA-1
Q1509	DTC124EKA	VSDTC124EKA-1
Q1510	DTA124EKA	VSDTA124EKA-1
Q1511	DTC124EKA	VSDTC124EKA-1
Q1512	DTA124EKA	VSDTA124EKA-1
Q1513	DTC124EKA	VSDTC124EKA-1
Q1701	DTC114EE	VSDTC114EE/-1
Q1708	DTC114EE	VSDTC114EE/-1
Q1710	FMMT718	VSFMMT718//-1
Q1718	2SK2503	VS2SK2503//-1
Q1719	2SC3928AR	VS2SC3928AR-1
Q7001	2SA1530AR	VS2SA1530AR-1
Q7002	2SC3928AR	VS2SC3928AR-1
Q7003	2SA1530AR	VS2SA1530AR-1
Q7004	2SC3928AR	VS2SC3928AR-1
Q7005	2SA1530AR	VS2SA1530AR-1
Q7006	2SA1530AR	VS2SA1530AR-1
Q7007	2SA1530AR	VS2SA1530AR-1
Q7008	2SA1530AR	VS2SA1530AR-1
Q7009	2SA1530AR	VS2SA1530AR-1
Q7010	2SA1530AR	VS2SA1530AR-1
Q7201	2SC3928AR	VS2SC3928AR-1
Q7206	2SC3928AR	VS2SC3928AR-1

DIODE

D601	Diode	VHD1SS355//-1
D801	Diode	VHD1SS355//-1
D802	Diode	VHD1SS355//-1
D1502	Diode	VHDDAN222//-1
D1503	Diode	VHDDAN222//-1
D1504	Diode	VHDDAN222//-1
D1505	Diode	VHD1SS355//-1
D1506	Diode	VHD1SS355//-1
D1701	Diode	VHDHSU119//-1
D1702	Diode	VHDHSU119//-1
D1706	Diode	VHDSFPB74//2E
D1708	Zener Diode	RH-EX0501CEZZY
D1709	Zener Diode	RH-EX0501CEZZY
D1710	Zener Diode	RH-EX0523CEZZ
D1711	Diode	VHDSFPB74//2E
D1712	Diode	VHDHSU119//-1
D1713	Diode	VHDHSU119//-1
D1715	Diode	VHDSFPB56//2E
D1716	Diode	VHD1SS250//1E
D1717	Diode	VHDSFPB76//2E
D1719	Diode	VHDSFPB76//2E
D1720	Diode	VHDSFPB76//2E
D1723	Diode	VHDSFPB74//2E
D1724	Diode	VHDHSU119//-1
D1727	Diode	VHDHSU119//-1
D7201	Diode	VHDDAN222//-1
D7202	Diode	VHDDAN222//-1

PACKAGED CIRCUIT

X601	Filter	RFiLA0034CEZZ
X801	Crystal	RCRSB0244CEZZ
X802	Crystal	RCRSB0244CEZZ
X1901	Crystal	RCRSZ0093CEZZY
X7001	Crystal	RCRSC0026CEZZY

FILTER , COIL, TANSFORMER

CF7201	Filter	RFiLA0098CEZZ
FL7001	Filter	RFiLN0097GEZZY
FL7002	Filter	RFiLN0097GEZZY
FL7003	Filter	RFiLN0079GEZZY
FL7004	Filter	RFiLN0079GEZZY
L401	Peaking 4.7µH	VP-1M4R7J1R2N
L404	Peaking 27µH	VP-1M270J3R8N
L407	Peaking 22µH	VP-1M220J2R9N
L409	Peaking 4.7µH	VP-1M4R7J1R2N
L601	Peaking 12µH	VP-1M120J1R9N
L602	Peaking 6.8µH	VP-1M6R8J1R4N
L603	Peaking 47µH	VP-1M470J5R4N
L604	Peaking 6.8µH	VP-1M6R8J1R4N
L605	Peaking 5.6µH	VP-1M5R6J1R2NY
L606	Peaking 8.2µH	VP-1M8R2J1R5N
L801	Peaking 4.7µH	VP-1M4R7J1R2N
L802	Peaking 4.7µH	VP-1M4R7J1R2N
L803	Peaking 4.7µH	VP-1M4R7J1R2N
L804	Peaking 4.7µH	VP-1M4R7J1R2N
L805	Peaking 4.7µH	VP-1M4R7J1R2N
L806	Peaking 4.7µH	VP-1M4R7J1R2N
L807	Peaking 4.7µH	VP-1M4R7J1R2N
L1708	Coil	RCiLC0175CEZZY
L1710	Coil	RCiLC0175CEZZY
L1711	Coil	RCiLC0130CEZZ
L1712	Coil	RCiLP0159GEZZ
L1718	Coil	RCiLC0170CEZZY
L1719	Coil	RCiLP0159GEZZ
L1720	Coil	RCiLP0159GEZZ
L1721	Coil	RCiLP0160GEZZ
L1722	Coil	RCiLP0166GEZZY
L7001	Peaking 4.7µH	VP-1M4R7J1R2N
L7002	Peaking 22µH	VP-1M220J2R9N
L7003	Peaking 22µH	VP-1M220J2R9N
T1701	Transformer	RTRNZ0802CEZZY

CAPACITOR

C403	22 6.3V Electrolytic	VCEAPF0JW226M
C404	0.1 25V Ceramic	VCKYCY1EF104Z
C405	0.1 25V Ceramic	VCKYCY1EF104Z
C406	0.1 25V Ceramic	VCKYCY1EF104Z
C407	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C408	0.1 25V Ceramic	VCKYCY1EF104Z
C409	0.1 25V Ceramic	VCKYCY1EF104Z
C410	1.0 16V Ceramic	VCKYTV1CB105K
C411	0.1 25V Ceramic	VCKYTV1EB104K
C412	0.1 25V Ceramic	VCKYCY1EF104Z
C413	0.1 25V Ceramic	VCKYCY1EF104Z
C414	0.1 25V Ceramic	VCKYCY1EF104Z
C415	0.1 25V Ceramic	VCKYCY1EF104Z
C416	100 6.3V Electrolytic	VCEAPF0JN107M
C417	1000p 50V Ceramic	VCKYCY1HB102K
C418	0.022 50V Ceramic	VCKYCY1HF223Z
C419	0.1 25V Ceramic	VCKYCY1EF104Z
C420	0.1 25V Ceramic	VCKYCY1EF104Z
C421	0.1 25V Ceramic	VCKYCY1EF104Z
C422	100 16V Electrolytic	VCEAPW1CN107M
C423	0.1 25V Ceramic	VCKYCY1EF104Z
C427	27p 50V Ceramic	VCCCCY1HH270J
C428	56p 50V Ceramic	VCCCCY1HH560J
C429	0.1 25V Ceramic	VCKYCY1EF104Z
C452	100 6.3V Electrolytic	VCEAPF0JN107M
C460	27p 50V Ceramic	VCCCCY1HH270J
C461	10p 50V Ceramic	VCCCCY1HH100D
C462	10p 50V Ceramic	VCCCCY1HH100D
C466	100 16V Electrolytic	VCEAPW1CN107M
C467	0.1 25V Ceramic	VCKYCY1EF104Z
C468	0.1 25V Ceramic	VCKYCY1EF104Z
C614	1.0 50V Electrolytic	VCEAPF1HN105M
C615	0.01 50V Ceramic	VCKYCY1HB103K
C616	1.0 50V Electrolytic	VCEAPF1HW105M
C617	0.1 25V Ceramic	VCKYCY1EF104Z
C618	330 16V Electrolytic	RC-EZ0538CEZZ
C620	220 6.3V Electrolytic	VCEASH0JN227MY
C622	0.01 50V Ceramic	VCKYCY1HB103K
C623	0.1 25V Ceramic	VCKYCY1EF104Z
C624	47 16V Electrolytic	VCEAPF1CW476M
C625	0.1 25V Ceramic	VCKYCY1EF104Z
C626	47 16V Electrolytic	VCEAPF1CW476M
C627	0.1 25V Ceramic	VCKYCY1EF104Z
C628	220p 50V Ceramic	VCCCCY1HH221J
C629	820p 50V Ceramic	VCCCCY1HH821JY
C630	3900p 50V Ceramic	VCKYCY1HB392K
C631	1200p 50V Ceramic	VCKYCY1HB122K
C632	120p 50V Ceramic	VCCCCY1HH121J
C633	0.01 50V Ceramic	VCKYCY1HB103K
C634	22 16V Electrolytic	VCEAPF1CW226M
C635	10 16V Electrolytic	VCEAPF1CW106M
C636	0.1 25V Ceramic	VCKYCY1EF104Z
C638	0.1 25V Ceramic	VCKYCY1EF104Z
C639	10 16V Electrolytic	VCEAPF1CW106M
C640	10 16V Electrolytic	VCEAPF1CW106M
C641	22 16V Electrolytic	VCEAPF1CW226M
C642	0.1 25V Ceramic	VCKYCY1EF104Z
C643	0.1 25V Ceramic	VCKYCY1EF104Z
C644	47 16V Electrolytic	VCEAPF1CW476M
C645	0.1 25V Ceramic	VCKYCY1EF104Z
C646	4.7 50V Electrolytic	VCEAPF1HW475M
C647	33 10V Electrolytic	VCEAPF1AW336M
C648	100 16V Electrolytic	VCEAPF1CW107M
C649	0.1 25V Ceramic	VCKYCY1EF104Z
C650	150p 50V Ceramic	VCCCCY1HH151J

Mark No.	Description	Part No.
C651	120p 50V Ceramic	VCCCCY1HH121J
C652	270p 50V Ceramic	VCCCCY1HH271J
C653	0.01 50V Ceramic	VCKYCY1HB103K
C654	0.1 25V Ceramic	VCKYCY1EF104Z
C801	0.1 25V Ceramic	VCKYTV1EB104K
C802	0.1 25V Ceramic	VCKYCY1EF104Z
C803	0.01 50V Ceramic	VCKYCY1HB103K
C804	100 6.3V Electrolytic	VCEAPF0JN107M
C805	0.01 50V Ceramic	VCKYCY1HB103K
C807	0.1 25V Ceramic	VCKYTV1EB104K
C808	0.1 25V Ceramic	VCKYTV1EB104K
C809	0.1 25V Ceramic	VCKYTV1EB104K
C810	4.7 25V Electrolytic	VCEAPF1EN475MY
C811	0.1 25V Ceramic	VCKYTV1EB104K
C812	0.1 25V Ceramic	VCKYTV1EB104K
C813	0.1 25V Ceramic	VCKYTV1EB104K
C814	0.01 50V Ceramic	VCKYCY1HB103K
C815	100 6.3V Electrolytic	VCAAPF0JJ107MY
C816	9.0p 50V Ceramic	VCCCCY1HH9R0DY
C817	0.01 50V Ceramic	VCKYCY1HB103K
C818	0.47 50V Electrolytic	VCEAPF1HN474M
C819	2.2 50V Electrolytic	VCEAPF1HN225MY
C820	0.022 25V Ceramic	VCKYCY1EB223KY
C821	0.01 50V Ceramic	VCKYCY1HB103K
C822	0.1 25V Ceramic	VCKYTV1EB104K
C823	0.1 25V Ceramic	VCKYCY1EF104Z
C824	0.1 25V Ceramic	VCKYTV1EB104K
C825	0.01 50V Ceramic	VCKYCY1HB103K
C826	100 6.3V Electrolytic	VCEAPF0JN107M
C827	0.01 50V Ceramic	VCKYCY1HB103K
C828	0.01 50V Ceramic	VCKYCY1HB103K
C829	10 16V Electrolytic	VCEAPF1CN106M
C830	0.1 25V Ceramic	VCKYTV1EB104K
C831	0.1 25V Ceramic	VCKYTV1EB104K
C832	0.1 25V Ceramic	VCKYTV1EB104K
C833	4.7 25V Electrolytic	VCEAPF1EN475MY
C834	0.1 25V Ceramic	VCKYTV1EB104K
C835	0.1 25V Ceramic	VCKYTV1EB104K
C836	0.1 25V Ceramic	VCKYTV1EB104K
C837	100 6.3V Electrolytic	VCAAPF0JJ107MY
C838	0.01 50V Ceramic	VCKYCY1HB103K
C839	9.0p 50V Ceramic	VCCCCY1HH9R0DY
C840	0.01 50V Ceramic	VCKYCY1HB103K
C841	0.47 50V Electrolytic	VCEAPF1HN474M
C842	0.1 25V Ceramic	VCKYCY1EF104Z
C845	2.2 50V Electrolytic	VCEAPF1HN225MY
C846	0.022 25V Ceramic	VCKYCY1EB223KY
C847	0.01 50V Ceramic	VCKYCY1HB103K
C848	1.0 50V Electrolytic	VCEAPF1HN105M
C849	1.0 50V Electrolytic	VCEAPF1HN105M
C850	1.0 50V Electrolytic	VCEAPF1HN105M
C851	0.1 25V Ceramic	VCKYCY1EF104Z
C852	470 16V Electrolytic	VCEASK1CN477MY
C854	220 6.3V Electrolytic	VCEAPF0JW227MY
C855	220 6.3V Electrolytic	VCEAPF0JW227MY
C856	220 6.3V Electrolytic	VCEAPF0JW227MY
C861	0.1 25V Ceramic	VCKYCY1EF104Z
C866	0.1 25V Ceramic	VCKYCY1EF104Z
C868	0.01 50V Ceramic	VCKYCY1HB103K
C869	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C870	0.1 25V Ceramic	VCKYCY1EF104Z
C871	0.1 25V Ceramic	VCKYCY1EF104Z
C872	0.1 25V Ceramic	VCKYCY1EF104Z
C873	1.0 16V Ceramic	VCKYTV1CB105K
C874	1.0 16V Ceramic	VCKYTV1CB105K
C875	1.0 16V Ceramic	VCKYTV1CB105K
C876	2200p 50V Ceramic	VCKYCY1HB222K
C877	0.47 16V Ceramic	VCKYTV1CB474K
C878	0.47 16V Ceramic	VCKYTV1CB474K
C879	22 16V Electrolytic	VCEAPF1CN226MY
C880	0.1 25V Ceramic	VCKYTV1EB104K
C881	0.1 25V Ceramic	VCKYTV1EB104K
C882	0.1 25V Ceramic	VCKYTV1EB104K
C883	22 16V Electrolytic	VCEAPF1CW226M
C884	22 16V Electrolytic	VCEAPF1CW226M
C885	22 16V Electrolytic	VCEAPF1CW226M
C886	39p 50V Ceramic	VCCCCY1HH390J
C887	10 16V Electrolytic	VCEAPF1CN106M
C888	0.47 16V Ceramic	VCKYTV1CB474K
C890	Ceramic	RC-KZ1025CEZZ
C891	47 6.3V Electrolytic	VCEAPF0JN476MY
C892	0.1 25V Ceramic	VCKYTV1EB104K
C893	0.1 25V Ceramic	VCKYTV1EB104K
C894	0.1 25V Ceramic	VCKYTV1EB104K
C895	0.1 25V Ceramic	VCKYTV1EB104K
C896	0.1 25V Ceramic	VCKYTV1EB104K
C897	0.1 25V Ceramic	VCKYTV1EB104K
C898	0.1 25V Ceramic	VCKYCY1EF104Z
C899	47 6.3V Electrolytic	VCEAPF0JN476MY
C900	100 6.3V Electrolytic	VCEAPF0JN107M
C901	0.1 25V Ceramic	VCKYCY1EF104Z
C902	1.0 50V Electrolytic	VCEAPF1HN105M
C903	0.1 25V Ceramic	VCKYCY1EF104Z
C912	0.47 50V Electrolytic	VCEAPF1HN474M
C913	0.47 50V Electrolytic	VCEAPF1HN474M
C914	39 16V Electrolytic	VCAAPF1CJ396MY
C915	0.1 25V Ceramic	VCKYCY1EF104Z
C916	0.1 25V Ceramic	VCKYCY1EF104Z
C917	0.1 25V Ceramic	VCKYTV1EB104K
C918	0.1 25V Ceramic	VCKYTV1EB104K
C919	0.1 25V Ceramic	VCKYTV1EB104K
C920	1.0 16V Ceramic	VCKYTV1CB105K
C921	1.0 16V Ceramic	VCKYTV1CB105K
C922	1.0 16V Ceramic	VCKYTV1CB105K
C923	0.1 25V Ceramic	VCKYCY1EF104Z
C924	0.1 25V Ceramic	VCKYCY1EF104Z
C925	0.1 25V Ceramic	VCKYCY1EF104Z
C926	0.1 25V Ceramic	VCKYCY1EF104Z
C927	0.1 25V Ceramic	VCKYCY1EF104Z
C928	47 16V Electrolytic	VCEAPF1CN476MY
C929	47 16V Electrolytic	VCEAPF1CN476MY
C930	0.1 25V Ceramic	VCKYCY1EF104Z
C931	10 16V Electrolytic	VCEAPF1CN106M
C932	10 16V Electrolytic	VCEAPF1CN106M
C933	0.1 25V Ceramic	VCKYCY1EF104Z
C934	22 16V Electrolytic	VCEAPF1CN226MY
C935	220 6.3V Electrolytic	VCEASH0JN227MY
C936	10 16V Electrolytic	VCEAPF1CN106M
C937	10 16V Electrolytic	VCEAPF1CN106M
C938	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C944	Capacitor	RC-KZ1025CEZZ
C950	0.1 25V Ceramic	VCKYCY1EF104Z
C951	0.1 25V Ceramic	VCKYCY1EF104Z
C952	0.1 25V Ceramic	VCKYCY1EF104Z
C953	0.1 25V Ceramic	VCKYCY1EF104Z
C954	0.1 25V Ceramic	VCKYCY1EF104Z
C1502	0.1 25V Ceramic	VCKYCY1EF104Z
C1503	0.1 25V Ceramic	VCKYCY1EF104Z
C1504	100 6.3V Electrolytic	VCEAPF0JN107M
C1505	47 16V Electrolytic	VCEAPF1CW476M
C1506	47 16V Electrolytic	VCEAPF1CW476M
C1511	0.1 25V Ceramic	VCKYCY1EF104Z
C1512	1.0 16V Ceramic	VCKYTV1CF105Z
C1701	330 16V Electrolytic	VCEASH1CN337MY
C1702	22 16V Electrolytic	VCEAPF1CW226M
C1703	0.1 25V Ceramic	VCKYCY1EF104Z
C1704	100p 50V Ceramic	VCCCCY1HH101J
C1705	0.47 16V Ceramic	VCKYCY1CF474Z
C1706	1.0 16V Ceramic	VCKYTV1CF105Z
C1707	0.22 16V Ceramic	VCKYTV1CF224Z
C1709	0.1 25V Ceramic	VCKYCY1EF104Z
C1711	0.1 16V Ceramic	VCKYTV1CF104Z
C1712	0.01 50V Ceramic	VCKYCY1HB103K
C1713	1.0 16V Ceramic	VCKYTV1CB105K
C1714	2200p 50V Ceramic	VCKYCY1HB222K
C1715	2200p 50V Ceramic	VCKYCY1HB222K
C1717	0.33 16V Ceramic	VCKYCY1CF334Z
C1718	100 16V Electrolytic	VCEAPF1CN107M
C1719	2200p 50V Ceramic	VCKYCY1HB222K
C1720	2200p 50V Ceramic	VCKYCY1HB222K
C1721	0.33 16V Ceramic	VCKYCY1CF334Z
C1722	100 16V Electrolytic	VCEAPF1CN107M
C1724	0.1 25V Ceramic	VCKYCY1EF104Z
C1725	1.0 16V Ceramic	VCKYTV1CF105Z
C1727	39 16V Electrolytic	VCAAPF1CJ396MY
C1728	82 16V Electrolytic	VCAAPF1CJ826MY
C1729	220 6.3V Electrolytic	VCAAPF0JJ227MY
C1731	0.1 25V Ceramic	VCKYCY1EF104Z
C1732	470 16V Electrolytic	VCEASK1CN477MY
C1733	0.33 16V Ceramic	VCKYCY1CF334Z
C1734	100 16V Electrolytic	VCEAPF1CN107M
C1735	470 16V Electrolytic	VCEASK1CN477MY
C1736	39 16V Electrolytic	VCAAPF1CJ396MY
C1737	82 16V Electrolytic	VCAAPF1CJ826MY
C1738	330 4.0V Electrolytic	VCAAPF0GJ337MY
C1740	1000p 50V Ceramic	VCKYCY1HB102K
C1741	0.33 16V Ceramic	VCKYCY1CF334Z
C1742	100 16V Electrolytic	VCEAPF1CN107M
C1743	1000p 50V Ceramic	VCKYCY1HB102K
C1744	1000p 50V Ceramic	VCKYCY1HB102K
C1745	1.0 16V Ceramic	VCKYTV1CF105Z
C1746	1000p 50V Ceramic	VCKYCY1HB102K
C1748	0.33 16V Ceramic	VCKYCY1CF334Z
C1749	100 16V Electrolytic	VCEAPF1CN107M
C1750	330 16V Electrolytic	VCEASH1CN337MY
C1751	5600p 50V Ceramic	VCKYCY1HB562K
C1752	82 16V Electrolytic	VCAAPF1CJ826MY
C1753	5600p 50V Ceramic	VCKYCY1HB562K
C1754	100 50V Electrolytic	VCEASH1HN107MY
C1755	0.1 50V Ceramic	VCKYTV1HF104Z

Mark No.	Description	Part No.
C1756	1.0 16V Ceramic	VCKYTV1CF105Z
C1757	330 16V Electrolytic	VCEASH1CN337MY
C1758	1.0 16V Ceramic	VCKYTV1CF105Z
C1759	Capacitor	RC-EZ1339CEZZ
C1764	330 16V Electrolytic	VCEASH1CN337MY
C1765	1.0 16V Ceramic	VCKYTV1CF105Z
C1766	Capacitor	RC-EZ1339CEZZ
C1767	1.0 16V Ceramic	VCKYTV1CF105Z
C1768	330 16V Electrolytic	VCEASH1CN337MY
C1769	Capacitor	RC-EZ1339CEZZ
C1770	1000p 50V Ceramic	VCKYCY1HB102K
C1771	1000p 50V Ceramic	VCKYCY1HB102K
C1772	1000p 50V Ceramic	VCKYCY1HB102K
C1773	1000p 50V Ceramic	VCKYCY1HB102K
C1774	470 16V Electrolytic	VCEASK1CN477MY
C1775	330 16V Electrolytic	VCEASK1CN337MY
C1776	1000p 50V Ceramic	VCKYCY1HB102K
C1777	1000p 50V Ceramic	VCKYCY1HB102K
C1778	100 6.3V Electrolytic	VCEAPF0JW107M
C1779	0.1 25V Ceramic	VCKYCY1EF104Z
C1780	1000p 50V Ceramic	VCKYCY1HB102K
C1781	1000p 50V Ceramic	VCKYCY1HB102K
C1782	1000p 50V Ceramic	VCKYCY1HB102K
C1783	39 16V Electrolytic	VCAAPF1CJ396MY
C1784	82 16V Electrolytic	VCAAPF1CJ826MY
C1785	150 10V Electrolytic	VCAAPF1AJ157MY
C1787	1000p 50V Ceramic	VCKYCY1HB102K
C1788	1000p 50V Ceramic	VCKYCY1HB102K
C1789	1000p 50V Ceramic	VCKYCY1HB102K
C1790	1000p 50V Ceramic	VCKYCY1HB102K
C1791	1000p 50V Ceramic	VCKYCY1HB102K
C1792	0.33 16V Ceramic	VCKYCY1CF334Z
C1793	100 16V Electrolytic	VCEAPF1CN107M
C1794	0.33 16V Ceramic	VCKYCY1CF334Z
C1795	100 16V Electrolytic	VCEAPF1CN107M
C1796	0.33 16V Ceramic	VCKYCY1CF334Z
C1797	100 16V Electrolytic	VCEAPF1CN107M
C1798	1000p 50V Ceramic	VCKYCY1HB102K
C1901	100 6.3V Electrolytic	VCEAPF0JW107M
C1902	0.1 25V Ceramic	VCKYCY1EF104Z
C1903	0.1 25V Ceramic	VCKYCY1EF104Z
C1904	0.1 25V Ceramic	VCKYCY1EF104Z
C1905	0.1 25V Ceramic	VCKYCY1EF104Z
C1906	0.1 25V Ceramic	VCKYCY1EF104Z
C1907	0.1 25V Ceramic	VCKYCY1EF104Z
C1908	100 6.3V Electrolytic	VCEAPF0JW107M
C1909	0.1 25V Ceramic	VCKYCY1EF104Z
C1910	0.1 25V Ceramic	VCKYCY1EF104Z
C1911	0.1 25V Ceramic	VCKYCY1EF104Z
C7001	22p 50V Ceramic	VCCCCY1HH220JY
C7002	22p 50V Ceramic	VCCCCY1HH220JY
C7003	0.1 25V Ceramic	VCKYCY1EF104Z
C7004	0.1 25V Ceramic	VCKYCY1EF104Z
C7005	0.1 25V Ceramic	VCKYCY1EF104Z
C7006	0.1 25V Ceramic	VCKYCY1EF104Z
C7007	390p 50V Ceramic	VCCCCY1HH391JY
C7008	0.1 25V Ceramic	VCKYCY1EF104Z
C7009	10 16V Electrolytic	VCEAPF1CN106M
C7010	0.1 25V Ceramic	VCKYCY1EF104Z
C7011	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C7012	0.47 50V Electrolytic	VCEAPF1HN474M
C7013	0.01 50V Ceramic	VCKYCY1HB103K
C7014	0.1 25V Ceramic	VCKYCY1EF104Z
C7015	470p 50V Ceramic	VCCCCY1HH471JY
C7016	0.33 50V Electrolytic	VCEAPF1HN334MY
C7017	0.1 25V Ceramic	VCKYCY1EF104Z
C7018	0.1 25V Ceramic	VCKYCY1EF104Z
C7019	0.1 25V Ceramic	VCKYCY1EF104Z
C7020	0.1 25V Ceramic	VCKYCY1EF104Z
C7021	10 16V Electrolytic	VCEAPF1CN106M
C7022	0.1 25V Ceramic	VCKYCY1EF104Z
C7023	100p 50V Ceramic	VCCCCY1HH101J
C7024	1.0 50V Elect.(N.P)	VCE9PF1HW105MY
C7025	0.1 25V Ceramic	VCKYCY1EF104Z
C7026	0.1 25V Ceramic	VCKYCY1EF104Z
C7027	0.1 25V Ceramic	VCKYCY1EF104Z
C7028	0.1 25V Ceramic	VCKYCY1EF104Z
C7029	0.1 25V Ceramic	VCKYCY1EF104Z
C7030	0.1 25V Ceramic	VCKYCY1EF104Z
C7031	0.1 25V Ceramic	VCKYCY1EF104Z
C7032	0.1 25V Ceramic	VCKYCY1EF104Z
C7033	0.1 25V Ceramic	VCKYCY1EF104Z
C7034	1.0p 50V Ceramic	VCCCCY1HH1R0CY
C7035	1.0 16V Ceramic	VCKYTV1CB105K
C7036	1.0 16V Ceramic	VCKYTV1CB105K
C7037	0.1 25V Ceramic	VCKYCY1EF104Z
C7038	100 6.3V Electrolytic	VCAAPF0JJ107MY
C7041	0.1 25V Ceramic	VCKYCY1EF104Z
C7042	47 16V Electrolytic	VCEAPF1CN476MY
C7043	10p 50V Ceramic	VCCCCY1HH100D
C7044	27p 50V Ceramic	VCCCCY1HH270J
C7045	10p 50V Ceramic	VCCCCY1HH100D
C7046	10p 50V Ceramic	VCCCCY1HH100D
C7047	27p 50V Ceramic	VCCCCY1HH270J
C7048	10p 50V Ceramic	VCCCCY1HH100D
C7049	0.01 50V Ceramic	VCKYCY1HB103K
C7050	0.01 50V Ceramic	VCKYCY1HB103K
C7051	100 6.3V Electrolytic	VCEAPF0JN107M
C7052	Capacitor	RC-EZ0416CEZZY
C7053	100 6.3V Electrolytic	VCEAPF0JN107M
C7054	100 6.3V Electrolytic	VCEAPF0JN107M
C7055	0.1 25V Ceramic	VCKYCY1EF104Z
C7057	100 6.3V Electrolytic	VCEAPF0JN107M
C7058	0.1 25V Ceramic	VCKYCY1EF104Z
C7201	0.1 25V Ceramic	VCKYCY1EF104Z
C7203	33p 50V Ceramic	VCCCCY1HH330J
C7204	33p 50V Ceramic	VCCCCY1HH330J
C7205	33p 50V Ceramic	VCCCCY1HH330J
C7206	33p 50V Ceramic	VCCCCY1HH330J
C7207	0.1 25V Ceramic	VCKYCY1EF104Z
C7208	0.1 25V Ceramic	VCKYCY1EF104Z
C7209	0.1 25V Ceramic	VCKYCY1EF104Z
C7210	0.1 25V Ceramic	VCKYCY1EF104Z
C7221	100 6.3V Electrolytic	VCEAPF0JW107M

RESISTOR

R403	470 1/16W Metal Oxide	VRS-CY1JF471F
R405	220 1/16W Metal Oxide	VRS-CY1JF221F
R406	390 1/16W Metal Oxide	VRS-CY1JF391F
R409	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R410	2.7k 1/16W Metal Oxide	VRS-CY1JF272F

Mark No.	Description	Part No.
R411	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
R412	560 1/16W Metal Oxide	VRS-CY1JF561J
R413	56k 1/16W Metal Oxide	VRS-CY1JF563J
R414	390 1/16W Metal Oxide	VRS-CY1JF391J
R415	390 1/16W Metal Oxide	VRS-CY1JF391J
R416	390 1/16W Metal Oxide	VRS-CY1JF391J
R420	390 1/16W Metal Oxide	VRS-CY1JF391J
R421	390 1/16W Metal Oxide	VRS-CY1JF391J
R422	100 1/16W Metal Oxide	VRS-CY1JF101J
R423	100 1/16W Metal Oxide	VRS-CY1JF101J
R424	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R425	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R435	100 1/16W Metal Oxide	VRS-CY1JF101J
R436	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R437	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R439	27k 1/16W Metal Oxide	VRS-CY1JF273J
R440	27k 1/16W Metal Oxide	VRS-CY1JF273J
R441	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R444	100 1/16W Metal Oxide	VRS-CY1JF101J
R445	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R446	330 1/16W Metal Oxide	VRS-CY1JF331J
R447	360 1/16W Metal Oxide	VRS-CY1JF361J
R448	100 1/16W Metal Oxide	VRS-CY1JF101J
R449	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R450	330 1/16W Metal Oxide	VRS-CY1JF331J
R451	330 1/16W Metal Oxide	VRS-CY1JF331J
R452	100 1/16W Metal Oxide	VRS-CY1JF101J
R453	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R454	330 1/16W Metal Oxide	VRS-CY1JF331J
R455	390 1/16W Metal Oxide	VRS-CY1JF391J
R459	560 1/16W Metal Oxide	VRS-CY1JF561J
R481	390 1/16W Metal Oxide	VRS-CY1JF391J
R528	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R529	910 1/16W Metal Oxide	VRS-CY1JF911J
R530	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R531	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R536	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R607	12k 1/16W Metal Oxide	VRS-CY1JF123J
R608	12k 1/16W Metal Oxide	VRS-CY1JF123J
R609	100 1/16W Metal Oxide	VRS-CY1JF101J
R610	100 1/16W Metal Oxide	VRS-CY1JF101J
R611	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R612	390 1/16W Metal Oxide	VRS-CY1JF391J
R613	100 1/16W Metal Oxide	VRS-CY1JF101J
R614	100 1/16W Metal Oxide	VRS-CY1JF101J
R615	100 1/16W Metal Oxide	VRS-CY1JF101J
R620	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R621	47 1/16W Metal Oxide	VRS-CY1JF470J
R622	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R623	330 1/16W Metal Oxide	VRS-CY1JF331J
R624	470 1/16W Metal Oxide	VRS-CY1JF471F
R625	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R626	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R627	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R628	47 1/16W Metal Oxide	VRS-CY1JF470J
R629	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R630	470 1/16W Metal Oxide	VRS-CY1JF471J
R631	100 1/16W Metal Oxide	VRS-CY1JF101J
R632	330 1/16W Metal Oxide	VRS-CY1JF331J
R633	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R634	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R635	100 1/16W Metal Oxide	VRS-CY1JF101J
R636	820 1/16W Metal Oxide	VRS-CY1JF821J
R637	15k 1/16W Metal Oxide	VRS-CY1JF153J
R638	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R639	820 1/16W Metal Oxide	VRS-CY1JF821J
R640	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R641	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R642	47 1/16W Metal Oxide	VRS-CY1JF470J
R643	680 1/16W Metal Oxide	VRS-CY1JF681J
R644	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R646	47 1/16W Metal Oxide	VRS-CY1JF470J
R647	330 1/16W Metal Oxide	VRS-CY1JF331J
R648	100 1/16W Metal Oxide	VRS-CY1JF101J
R649	18k 1/16W Metal Oxide	VRS-CY1JF183J
R650	47 1/16W Metal Oxide	VRS-CY1JF470J
R651	5.1k 1/16W Metal Oxide	VRS-CY1JF512J
R652	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R653	470 1/16W Metal Oxide	VRS-CY1JF471J
R654	220 1/16W Metal Oxide	VRS-CY1JF221J
R655	15k 1/16W Metal Oxide	VRS-CY1JF153J
R656	5.1k 1/16W Metal Oxide	VRS-CY1JF512J
R658	47 1/16W Metal Oxide	VRS-CY1JF470J
R659	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R661	680 1/16W Metal Oxide	VRS-CY1JF681J
R664	300 1/16W Metal Oxide	VRS-CY1JF301F
R665	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R666	820 1/16W Metal Oxide	VRS-CY1JF821J
R667	47 1/16W Metal Oxide	VRS-CY1JF470J
R668	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R669	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R670	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R671	0 1/16W Metal Oxide	VRS-CY1JF000J
R672	0 1/16W Metal Oxide	VRS-CY1JF000J
R675	33k 1/16W Metal Oxide	VRS-CY1JF333J
R676	22k 1/16W Metal Oxide	VRS-CY1JF223J
R677	47 1/16W Metal Oxide	VRS-CY1JF470J
R678	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R679	470 1/16W Metal Oxide	VRS-CY1JF471J
R680	10k 1/16W Metal Oxide	VRS-CY1JF103J
R681	330 1/16W Metal Oxide	VRS-CY1JF331J
R682	47k 1/16W Metal Oxide	VRS-CY1JF473J
R683	18k 1/16W Metal Oxide	VRS-CY1JF183J
R684	47 1/16W Metal Oxide	VRS-CY1JF470J
R685	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R699	0 1/16W Metal Oxide	VRS-CY1JF000J
R800	0 1/16W Metal Oxide	VRS-CY1JF000J
R801	560 1/16W Metal Oxide	VRS-CY1JF561J
R802	100 1/16W Metal Oxide	VRS-CY1JF101J
R803	100 1/16W Metal Oxide	VRS-CY1JF101J
R805	27k 1/16W Metal Oxide	VRS-CY1JF273J
R807	3.9k 1/16W Metal Oxide	VRS-CY1JF392J
R808	100 1/16W Metal Oxide	VRS-CY1JF101J
R809	100 1/16W Metal Oxide	VRS-CY1JF101J
R811	27k 1/16W Metal Oxide	VRS-CY1JF273J
R812	100 1/16W Metal Oxide	VRS-CY1JF101J
R813	3.9k 1/16W Metal Oxide	VRS-CY1JF392J
R816	10k 1/16W Metal Oxide	VRS-CY1JF103J
R817	10k 1/16W Metal Oxide	VRS-CY1JF103J
R818	10k 1/16W Metal Oxide	VRS-CY1JF103J

Mark No.	Description	Part No.	Mark No.	Description	Part No.
R819	10k 1/16W Metal Oxide	VRS-CY1JF103J	R924	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R820	75 1/8W Metal Oxide	VRS-TQ2BD750J	R925	10k 1/16W Metal Oxide	VRS-CY1JF103J
R821	75 1/8W Metal Oxide	VRS-TQ2BD750J	R926	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R822	75 1/8W Metal Oxide	VRS-TQ2BD750J	R927	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R830	680 1/16W Metal Oxide	VRS-CY1JF681J	R928	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R831	470 1/16W Metal Oxide	VRS-CY1JF471J	R929	56 1/16W Metal Oxide	VRS-CY1JF560J
R832	47k 1/16W Metal Oxide	VRS-CY1JF473F	R930	56 1/16W Metal Oxide	VRS-CY1JF560J
R833	100 1/16W Metal Oxide	VRS-CY1JF101J	R931	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R834	100 1/16W Metal Oxide	VRS-CY1JF101J	R932	100 1/16W Metal Oxide	VRS-CY1JF101J
R835	47 1/16W Metal Oxide	VRS-CY1JF470J	R933	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R836	47 1/16W Metal Oxide	VRS-CY1JF470J	R934	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R837	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R935	820 1/16W Metal Oxide	VRS-CY1JF821J
R841	47 1/16W Metal Oxide	VRS-CY1JF470J	R936	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R842	5.6k 1/16W Metal Oxide	VRS-CY1JF562J	R937	100 1/16W Metal Oxide	VRS-CY1JF101J
R844	6.8k 1/16W Metal Oxide	VRS-CY1JF682J	R938	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R846	47 1/16W Metal Oxide	VRS-CY1JF470J	R939	820 1/16W Metal Oxide	VRS-CY1JF821J
R847	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R940	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R850	47 1/16W Metal Oxide	VRS-CY1JF470J	R941	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R851	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R942	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R854	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R943	820 1/16W Metal Oxide	VRS-CY1JF821J
R855	3.3M 1/16W Metal Oxide	VRS-CY1JF335J	R944	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R856	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R945	820 1/16W Metal Oxide	VRS-CY1JF821J
R857	10k 1/16W Metal Oxide	VRS-CY1JF103J	R946	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R858	10k 1/16W Metal Oxide	VRS-CY1JF103J	R947	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R859	0 1/16W Metal Oxide	VRS-CY1JF000J	R948	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R864	100 1/16W Metal Oxide	VRS-CY1JF101J	R949	820 1/16W Metal Oxide	VRS-CY1JF821J
R865	100 1/16W Metal Oxide	VRS-CY1JF101J	R950	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R866	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R951	820 1/16W Metal Oxide	VRS-CY1JF821J
R867	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R952	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R868	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R953	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R869	10k 1/16W Metal Oxide	VRS-CY1JF103J	R954	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R873	22k 1/16W Metal Oxide	VRS-CY1JF223F	R955	820 1/16W Metal Oxide	VRS-CY1JF821J
R874	10k 1/16W Metal Oxide	VRS-CY1JF103J	R956	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R875	10k 1/16W Metal Oxide	VRS-CY1JF103J	R957	820 1/16W Metal Oxide	VRS-CY1JF821J
R876	10k 1/16W Metal Oxide	VRS-CY1JF103J	R958	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R877	10k 1/16W Metal Oxide	VRS-CY1JF103J	R959	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R886	2.2k 1/16W Metal Oxide	VRS-CY1JF222J	R960	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R891	100 1/16W Metal Oxide	VRS-CY1JF101J	R961	820 1/16W Metal Oxide	VRS-CY1JF821J
R892	100 1/16W Metal Oxide	VRS-CY1JF101J	R962	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R894	100 1/16W Metal Oxide	VRS-CY1JF101J	R963	47 1/16W Metal Oxide	VRS-CY1JF470J
R896	2.2k 1/16W Metal Oxide	VRS-CY1JF222J	R964	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R898	10k 1/16W Metal Oxide	VRS-CY1JF103J	R965	47 1/16W Metal Oxide	VRS-CY1JF470J
R899	10k 1/16W Metal Oxide	VRS-CY1JF103J	R966	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R900	10k 1/16W Metal Oxide	VRS-CY1JF103J	R967	22k 1/16W Metal Oxide	VRS-CY1JF223J
R901	18k 1/16W Metal Oxide	VRS-CY1JF183J	R968	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R902	22k 1/16W Metal Oxide	VRS-CY1JF223J	R969	47 1/16W Metal Oxide	VRS-CY1JF470J
R903	18k 1/16W Metal Oxide	VRS-CY1JF183J	R970	11k 1/16W Metal Oxide	VRS-CY1JF113F
R904	22k 1/16W Metal Oxide	VRS-CY1JF223J	R971	6.8k 1/16W Metal Oxide	VRS-CY1JF682F
R905	18k 1/16W Metal Oxide	VRS-CY1JF183J	R972	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
R906	22k 1/16W Metal Oxide	VRS-CY1JF223J	R973	47 1/16W Metal Oxide	VRS-CY1JF470J
R907	56 1/16W Metal Oxide	VRS-CY1JF560J	R974	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
R908	150 1/8W Metal Oxide	VRS-TQ2BD151J	R975	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R909	470 1/16W Metal Oxide	VRS-CY1JF471J	R976	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R910	180 1/16W Metal Oxide	VRS-CY1JF181J	R977	10k 1/16W Metal Oxide	VRS-CY1JF103J
R911	470 1/16W Metal Oxide	VRS-CY1JF471J	R978	8.2k 1/16W Metal Oxide	VRS-CY1JF822J
R912	4.3k 1/16W Metal Oxide	VRS-CY1JF432J	R979	33k 1/16W Metal Oxide	VRS-CY1JF333F
R913	150 1/8W Metal Oxide	VRS-TQ2BD151J	R980	56 1/16W Metal Oxide	VRS-CY1JF560J
R914	1.5k 1/16W Metal Oxide	VRS-CY1JF152J	R981	10k 1/16W Metal Oxide	VRS-CY1JF103J
R915	56 1/16W Metal Oxide	VRS-CY1JF560J	R982	10k 1/16W Metal Oxide	VRS-CY1JF103J
R923	56 1/16W Metal Oxide	VRS-CY1JF560J	R983	10k 1/16W Metal Oxide	VRS-CY1JF103J

Mark No.	Description	Part No.
R984	22k 1/16W Metal Oxide	VRS-CY1JF223J
R987	330 1/16W Metal Oxide	VRS-CY1JF331F
R988	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R989	120 1/16W Metal Oxide	VRS-CY1JF121FY
R990	39k 1/16W Metal Oxide	VRS-CY1JF393F
R991	47 1/16W Metal Oxide	VRS-CY1JF470J
R992	100 1/16W Metal Oxide	VRS-CY1JF101J
R993	100 1/16W Metal Oxide	VRS-CY1JF101J
R994	100 1/16W Metal Oxide	VRS-CY1JF101J
R995	100 1/16W Metal Oxide	VRS-CY1JF101J
R996	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R997	56 1/16W Metal Oxide	VRS-CY1JF560J
R998	56 1/16W Metal Oxide	VRS-CY1JF560J
R999	100 1/16W Metal Oxide	VRS-CY1JF101J
R1501	100 1/16W Metal Oxide	VRS-CY1JF101J
R1502	100 1/16W Metal Oxide	VRS-CY1JF101J
R1503	100 1/16W Metal Oxide	VRS-CY1JF101J
R1504	100 1/16W Metal Oxide	VRS-CY1JF101J
R1505	100 1/16W Metal Oxide	VRS-CY1JF101J
R1506	100 1/16W Metal Oxide	VRS-CY1JF101J
R1507	100 1/16W Metal Oxide	VRS-CY1JF101J
R1515	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1516	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1517	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1518	100 1/16W Metal Oxide	VRS-CY1JF101J
R1519	100 1/16W Metal Oxide	VRS-CY1JF101J
R1521	390 1/16W Metal Oxide	VRS-CY1JF391J
R1522	390 1/16W Metal Oxide	VRS-CY1JF391J
R1524	390 1/16W Metal Oxide	VRS-CY1JF391J
R1525	390 1/16W Metal Oxide	VRS-CY1JF391J
R1529	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1530	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1531	100 1/16W Metal Oxide	VRS-CY1JF101J
R1533	100 1/16W Metal Oxide	VRS-CY1JF101J
R1534	100 1/16W Metal Oxide	VRS-CY1JF101J
R1535	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1538	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1539	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1544	100 1/16W Metal Oxide	VRS-CY1JF101J
R1545	100 1/16W Metal Oxide	VRS-CY1JF101J
R1550	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1551	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1564	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1565	390 1/16W Metal Oxide	VRS-CY1JF391J
R1567	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1568	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1569	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1570	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1571	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1572	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1573	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1594	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1596	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1701	68k 1/16W Metal Oxide	VRS-CY1JF683J
R1702	2.7k 1/16W Metal Oxide	VRS-CY1JF272J
R1706	33k 1/16W Metal Oxide	VRS-CY1JF333J
R1707	27k 1/16W Metal Oxide	VRS-CY1JF273J
R1708	39k 1/16W Metal Oxide	VRS-CY1JF393J
R1709	10 1/4W Metal Oxide	VRS-TW2ED100J
R1711	100 1/16W Metal Oxide	VRS-CY1JF101J

Mark No.	Description	Part No.
R1712	100 1/16W Metal Oxide	VRS-CY1JF101J
R1713	100 1/16W Metal Oxide	VRS-CY1JF101J
R1714	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1718	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1719	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1721	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1722	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1724	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1726	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1727	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1728	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1736	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1743	12 1/4W Metal Oxide	VRS-TW2ED120J
R1744	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
R1745	330 1/16W Metal Oxide	VRS-CY1JF331F
R1746	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
R1747	47k 1/16W Metal Oxide	VRS-CY1JF473F
R1751	470 1/4W Metal Oxide	VRS-TW2ED471J
R1753	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1756	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1763	12 1/4W Metal Oxide	VRS-TW2ED120J
R1764	2.7k 1/16W Metal Oxide	VRS-CY1JF272F
R1765	330 1/16W Metal Oxide	VRS-CY1JF331F
R1766	1.8k 1/16W Metal Oxide	VRS-CY1JF182F
R1767	12k 1/16W Metal Oxide	VRS-CY1JF123F
R1774	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1775	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R1776	560 1/16W Metal Oxide	VRS-CY1JF561F
R1777	30k 1/16W Metal Oxide	VRS-CY1JF303F
R1778	4.7k 1/16W Metal Oxide	VRS-CY1JF472F
R1779	39k 1/16W Metal Oxide	VRS-CY1JF393F
R1780	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1781	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1782	12 1/4W Metal Oxide	VRS-TW2ED120J
R1783	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R1784	12k 1/16W Metal Oxide	VRS-CY1JF123J
R1785	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1786	0 1/16W Metal Oxide	VRS-CY1JF000J
R1788	820 1W Metal Oxide	VRS-CR3AD821J
R1790	68k 1/8W Metal Oxide	VRS-TQ2BD683J
R1791	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1792	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1794	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1901	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1902	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1905	100 1/16W Metal Oxide	VRS-CY1JF101J
R1906	100 1/16W Metal Oxide	VRS-CY1JF101J
R1907	100 1/16W Metal Oxide	VRS-CY1JF101J
R1911	0 1/16W Metal Oxide	VRS-CY1JF000J
R1913	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1915	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1916	100 1/16W Metal Oxide	VRS-CY1JF101J
R1917	100 1/16W Metal Oxide	VRS-CY1JF101J
R1920	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1921	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1922	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1923	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1926	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1927	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1928	10k 1/16W Metal Oxide	VRS-CY1JF103J

Mark No.	Description	Part No.
R1929	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1930	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1931	100 1/16W Metal Oxide	VRS-CY1JF101J
R1932	100 1/16W Metal Oxide	VRS-CY1JF101J
R1933	100 1/16W Metal Oxide	VRS-CY1JF101J
R1934	100 1/16W Metal Oxide	VRS-CY1JF101J
R1935	100 1/16W Metal Oxide	VRS-CY1JF101J
R1936	100 1/16W Metal Oxide	VRS-CY1JF101J
R1937	100 1/16W Metal Oxide	VRS-CY1JF101J
R1938	100 1/16W Metal Oxide	VRS-CY1JF101J
R1941	100 1/16W Metal Oxide	VRS-CY1JF101J
R1942	100 1/16W Metal Oxide	VRS-CY1JF101J
R1943	100 1/16W Metal Oxide	VRS-CY1JF101J
R1944	100 1/16W Metal Oxide	VRS-CY1JF101J
R7001	470 1/16W Metal Oxide	VRS-CY1JF471J
R7002	470 1/16W Metal Oxide	VRS-CY1JF471J
R7003	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7004	33k 1/16W Metal Oxide	VRS-CY1JF333J
R7005	270 1/16W Metal Oxide	VRS-CY1JF271J
R7006	270 1/16W Metal Oxide	VRS-CY1JF271J
R7007	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R7008	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R7009	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R7010	470 1/16W Metal Oxide	VRS-CY1JF471J
R7011	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7012	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R7013	47k 1/16W Metal Oxide	VRS-CY1JF473J
R7014	220k 1/16W Metal Oxide	VRS-CY1JF224J
R7015	220 1/16W Metal Oxide	VRS-CY1JF221J
R7016	0 1/8W Metal Oxide	VRS-TQ2BD000J
R7017	100 1/16W Metal Oxide	VRS-CY1JF101J
R7018	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7019	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7020	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7021	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7023	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7027	0 1/16W Metal Oxide	VRS-CY1JF000J
R7028	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7031	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7034	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7035	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7036	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7037	910 1/16W Metal Oxide	VRS-CY1JF911J
R7038	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7039	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7040	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R7041	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7042	910 1/16W Metal Oxide	VRS-CY1JF911J
R7043	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7044	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7045	2.2 1/2W Metal Oxide	VRS-TX2HF2R2JY
R7046	2.2 1/2W Metal Oxide	VRS-TX2HF2R2JY
R7049	47 1/16W Metal Oxide	VRS-CY1JF470J
R7050	620 1/16W Metal Oxide	VRS-CY1JF621JY
R7201	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
R7202	220 1/16W Metal Oxide	VRS-CY1JF221J
R7203	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R7205	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7206	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7207	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7208	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7209	100 1/16W Metal Oxide	VRS-CY1JF101J
R7210	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7211	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7215	10k 1/16W Metal Oxide	VRS-CY1JF103J
R7216	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7217	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7224	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7225	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R7237	100 1/16W Metal Oxide	VRS-CY1JF101J
R7238	10k 1/16W Metal Oxide	VRS-CY1JF103J
R7239	10k 1/16W Metal Oxide	VRS-CY1JF103J
R7240	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

MISCELLANEOUS PARTS

F1702	Fuse 4A	QFS-D0011CEZZ
FB401	Ferrite Bead	RBLN-0061TAZZ
FB601	Ferrite Bead	RBLN-0061TAZZ
FB602	Ferrite Bead	RBLN-0061TAZZ
FB603	Ferrite Bead	RBLN-0061TAZZ
FB801	Ferrite Bead	RBLN-0061TAZZ
FB802	Ferrite Bead	RBLN-0061TAZZ
FB803	Ferrite Bead	RBLN-0061TAZZ
FB1701	Ferrite Bead	RBLN-0210TAZZ
FB1702	Ferrite Bead	RBLN-0210TAZZ
FB1703	Ferrite Bead	RBLN-0210TAZZ
FB1704	Ferrite Bead	RBLN-0210TAZZ
FB1705	Ferrite Bead	RBLN-0210TAZZ
FB1706	Ferrite Bead	RBLN-0210TAZZ
FB1707	Ferrite Bead	RBLN-0210TAZZ
FB1709	Ferrite Bead	RBLN-0210TAZZ
FB1710	Ferrite Bead	RBLN-0210TAZZ
FB1711	Ferrite Bead	RBLN-0210TAZZ
FB1712	Ferrite Bead	RBLN-0210TAZZ
FB1713	Ferrite Bead	RBLN-0210TAZZ
FB1714	Ferrite Bead	RBLN-0210TAZZ
FB1715	Ferrite Bead	RBLN-0210TAZZ
FB1716	Ferrite Bead	RBLN-0210TAZZ
FB1717	Ferrite Bead	RBLN-0210TAZZ
FB1718	Ferrite Bead	RBLN-0210TAZZ
FB1719	Ferrite Bead	RBLN-0210TAZZ
FB1720	Ferrite Bead	RBLN-0210TAZZ
FB1721	Ferrite Bead	RBLN-0210TAZZ
FB1722	Ferrite Bead	RBLN-0210TAZZ
FB1723	Ferrite Bead	RBLN-0210TAZZ
FB1724	Ferrite Bead	RBLN-0051TAZZ
FB1725	Ferrite Bead	RBLN-0210TAZZ
FB1727	Ferrite Bead	RBLN-0210TAZZ
FB1728	Ferrite Bead	RBLN-0210TAZZ
FB1729	Ferrite Bead	RBLN-0210TAZZ
FB1730	Ferrite Bead	RBLN-0210TAZZ
FB1731	Ferrite Bead	RBLN-0006TAZZ
FB1732	Ferrite Bead	RBLN-0210TAZZ
FB1733	Ferrite Bead	RBLN-0210TAZZ
FB1734	Ferrite Bead	RBLN-0210TAZZ
FB1735	Ferrite Bead	RBLN-0210TAZZ
FB1736	Ferrite Bead	RBLN-0210TAZZ
FB1737	Ferrite Bead	RBLN-0210TAZZ
FB1740	Ferrite Bead	RBLN-0210TAZZ
FB1741	Ferrite Bead	RBLN-0210TAZZ

Mark No.	Description	Part No.
FB1742	Ferrite Bead	RBLN-0210TAZZ
FB1744	Ferrite Bead	RBLN-0210TAZZ
FB1745	Ferrite Bead	RBLN-0210TAZZ
FB1746	Ferrite Bead	RBLN-0210TAZZ
FB1747	Ferrite Bead	RBLN-0210TAZZ
FB1748	Ferrite Bead	RBLN-0210TAZZ
FB1749	Ferrite Bead	RBLN-0210TAZZ
FB1750	Ferrite Bead	RBLN-0210TAZZ
FB1751	Ferrite Bead	RBLN-0210TAZZ
FB1752	Ferrite Bead	RBLN-0210TAZZ
FB1901	Ferrite Bead	RBLN-0060TAZZ
FB1902	Ferrite Bead	RBLN-0060TAZZ
FB7001	Ferrite Bead	RBLN-0061TAZZ
FB7002	Ferrite Bead	RBLN-0061TAZZ
FB7003	Ferrite Bead	RBLN-0061TAZZ
FB7004	Ferrite Bead	RBLN-0059CEZZY
FB7005	Ferrite Bead	RBLN-0059CEZZY
FB7006	Ferrite Bead	RBLN-0059CEZZY
FB7007	Ferrite Bead	RBLN-0059CEZZY
FB7008	Ferrite Bead	RBLN-0061TAZZ
FB7201	Ferrite Bead	RBLN-0061TAZZ
FB7203	Ferrite Bead	RBLN-0061TAZZ
FH1703	Fuse Holder	QFSHD1002CEZZ
FH1704	Fuse Holder	QFSHD1002CEZZ
P801	Plug 6-Pin	QPLGN0056CEZZY
P1502	Plug 12-Pin	QPLGN0549FJZZY
P1504	Plug 10-Pin	QPLGN0060CEZZY
P1702	Plug 13-Pin	QPLGN0550FJZZY
P1703	Plug 12-Pin	QPLGN0062CEZZY
P1901	Plug	QPLGN1094CEZZ
SC1501	Socket 30-Pin	QSOCN0490FJZZ
SC1502	Socket 50-Pin	QSOCN0464FJZZ
SC1503	Socket 30-Pin	QSOCN0550FJZZY
SC1504	Socket 30-Pin	QSOCN0490FJZZ
	Connecting Cord	QCNW-6077CEZZ

B FRONT UNIT

IC

IC3401	24LC21T	VHi24LC21//-1

TRANSISTOR

Q3401	2SC2735	VS2SC2735//1E
Q3402	2SC2735	VS2SC2735//1E
Q3403	2SC2735	VS2SC2735//1E

DIODE

D3401	Zener Diode	RH-EX1264CEZZ
D3402	Diode	VHDMA3120WA-1
D3403	Diode	VHDMA3120WA-1
D3404	Diode	VHDMA3120WA-1
D3405	Zener Diode	RH-EX1264CEZZ
D3406	Zener Diode	RH-EX1264CEZZ
D3407	Zener Diode	RH-EX1271CEZZ
D3408	Zener Diode	RH-EX1271CEZZ
D3409	Diode	VHDDAN222//-1

FILTER, COIL

FL3401	Filter	RFiLN0003TAZZ
FL3402	Filter	RFiLN0003TAZZ
FL3403	Filter	RFiLN0003TAZZ
FL3412	Filter	RFiLN0017TAZZ
FL3413	Filter	RFiLN0017TAZZ
FL3414	Filter	RFiLN0017TAZZ
L3401	Peaking 10µH	VP-1M100J1R6N

CAPACITOR

C3401	100 6.3V Electrolytic	VCEAPF0JW107M
C3402	0.01 50V Ceramic	VCKYCY1HB103K
C3403	0.1 25V Ceramic	VCKYCY1EF104Z
C3404	47 16V Electrolytic	VCEAPF1CW476M
C3405	0.01 50V Ceramic	VCKYCY1HB103K
C3406	10 16V Electrolytic	VCEAPF1CN106M
C3407	0.01 50V Ceramic	VCKYCY1HB103K
C3408	10 16V Electrolytic	VCEAPF1CN106M
C3409	0.01 50V Ceramic	VCKYCY1HB103K
C3410	10 16V Electrolytic	VCEAPF1CN106M
C3411	10 16V Electrolytic	VCEAPF1CN106M
C3412	10 16V Electrolytic	VCEAPF1CN106M
C3414	10p 50V Ceramic	VCCCCY1HH100D
C3415	10 16V Electrolytic	VCEAPF1CN106M
C3416	0.1 25V Ceramic	VCKYCY1EF104Z
C3417	10p 50V Ceramic	VCCCCY1HH100D
C3418	10 16V Electrolytic	VCEAPF1CN106M
C3420	0.01 50V Ceramic	VCKYCY1HB103K
C3421	0.01 50V Ceramic	VCKYCY1HB103K
C3422	0.01 50V Ceramic	VCKYCY1HB103K
C3423	0.1 25V Ceramic	VCKYCY1EF104Z
C3426	10 25V Electrolytic	VCEAPW1EN106M
C3427	10 25V Electrolytic	VCEAPW1EN106M
C3428	100p 50V Ceramic	VCCCCY1HH101J
C3429	100p 50V Ceramic	VCCCCY1HH101J
C3430	56p 50V Ceramic	VCCCCY1HH560J
C3431	56p 50V Ceramic	VCCCCY1HH560J
C3432	100p 50V Ceramic	VCCCCY1HH101J
C3433	1000p 50V Ceramic	VCKYCY1HB102K
C3434	1000p 50V Ceramic	VCKYCY1HB102K
C3435	100p 50V Ceramic	VCCCCY1HH101J
C3436	1000p 50V Ceramic	VCKYCY1HB102K
C3437	1000p 50V Ceramic	VCKYCY1HB102K

RESISTOR

R3401	560 1/8W Metal Oxide	VRS-TQ2BD561J
R3402	100 1/16W Metal Oxide	VRS-CY1JF101J
R3403	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R3404	10k 1/16W Metal Oxide	VRS-CY1JF103J
R3405	560 1/8W Metal Oxide	VRS-TQ2BD561J
R3406	100 1/16W Metal Oxide	VRS-CY1JF101J
R3407	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R3408	10k 1/16W Metal Oxide	VRS-CY1JF103J
R3409	560 1/8W Metal Oxide	VRS-TQ2BD561J
R3410	100 1/16W Metal Oxide	VRS-CY1JF101J
R3411	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R3412	10k 1/16W Metal Oxide	VRS-CY1JF103J
R3413	100 1/16W Metal Oxide	VRS-CY1JF101J
R3414	100 1/16W Metal Oxide	VRS-CY1JF101J
R3415	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R3416	100 1/16W Metal Oxide	VRS-CY1JF101J
R3417	47k 1/16W Metal Oxide	VRS-CY1JF473J
R3418	47k 1/16W Metal Oxide	VRS-CY1JF473J
R3422	75 1/4W Metal Oxide	VRS-TW2ED750J
R3423	75 1/4W Metal Oxide	VRS-TW2ED750J
R3424	75 1/4W Metal Oxide	VRS-TW2ED750J

Mark	No.	Description	Part No.
	R3425	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3427	0 1/16W Metal Oxide	VRS-CY1JF000J
A	R3428	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3429	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3430	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3431	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3432	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R3433	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3434	75 1/4W Metal Oxide	VRS-TW2ED750J
	R3435	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3436	270k 1/16W Metal Oxide	VRS-CY1JF274F
	R3437	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R3439	47 1/16W Metal Oxide	VRS-CY1JF470J
B	R3440	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3441	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3442	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3443	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3445	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R3446	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3447	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3448	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R3449	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3450	100 1/16W Metal Oxide	VRS-CY1JF101J
C	R3451	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3453	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R3454	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R3455	1.0k 1/16W Metal Oxide	VRS-TV1JD102J
	R3456	1.0k 1/16W Metal Oxide	VRS-TV1JD102J

SWITCH

	SW3401	Switch	QSW-K0069CEZZ

MISCELLANEOUS PARTS

	FB3401	Ferrite Bead	RBLN-0076TAZZ
	FB3402	Ferrite Bead	RBLN-0060TAZZ
D	FB3403	Ferrite Bead	RBLN-0060TAZZ
	FB3404	Ferrite Bead	RBLN-0060TAZZ
	FB3405	Ferrite Bead	RBLN-0062TAZZ
	FB3406	Ferrite Bead	RBLN-0062TAZZ
	FB3407	Ferrite Bead	RBLN-0062TAZZ
	FB3408	Ferrite Bead	RBLN-0062TAZZ
	FB3409	Ferrite Bead	RBLN-0062TAZZ
	J3401	Jack 3-RCA/DIN	QJAKZ0102PEZZ
	J3403	Jack (PC-SIN)	QJAKJ0047CEZZ
	P3401	Plug 12-Pin	QPLGN1278GEZZ
	P3402	Plug 18-Pin	QPLGN0428FJZZ
E	SC3401	Socket 15-Pin D-sub	QSOCN1594CEZZ

C AV UNIT

TUNER

	TU1101	Tuner	VTUVT2U5UW253
	TU1102	Tuner	VTUVT2U5UF253

IC

	IC1101	BA05FP	VHiBA05FP++-1Y
	IC1102	M62320FP	VHiM62320FP-1
	IC1103	BA05FP	VHiBA05FP++-1Y
	IC1104	MM1506XNRE	VHiMM1506XN-1
F	IC1105	MM1506XNRE	VHiMM1506XN-1
	IC1301	CXA2069Q	VHiCXA2069Q-1
	IC1401	MM1519XG	VHiMM1519XQ-1
	IC1601	Z8623012SSC	VHiZ86230S+-1Y
	IC1602	Z8612912SSC	VHiZ86129S+-1Y
	IC1603	Z8623012SSC	VHiZ86230S+-1Y
	IC2501	MSP3440G-QA-B8	RH-IX3370CEN1Q
	IC2503	PST529DMT	VHiPST529DM-1
	IC2504	NJM2233BM	VHiNJ2233BM-1Y
	IC2505	NJM2233BM	VHiNJ2233BM-1Y

TRANSISTOR

	Q1101	2SC3928AR	VS2SC3928AR-1
	Q1102	DTC314TK	VSDTC314TK/-1
	Q1103	DTC314TK	VSDTC314TK/-1
	Q1104	2SC3928AR	VS2SC3928AR-1
	Q1105	2SA1530AR	VS2SA1530AR-1
	Q1106	2SA1530AR	VS2SA1530AR-1
	Q1107	2SA1530AR	VS2SA1530AR-1
	Q1108	2SC3928AR	VS2SC3928AR-1
	Q1111	2SC3928AR	VS2SC3928AR-1
	Q1112	2SA1530AR	VS2SA1530AR-1
	Q1401	2SC3928AR	VS2SC3928AR-1
	Q1402	2SC3928AR	VS2SC3928AR-1
	Q1403	2SC3928AR	VS2SC3928AR-1
	Q1405	2SA1530AR	VS2SA1530AR-1
	Q1406	2SA1530AR	VS2SA1530AR-1
	Q1407	2SA1530AR	VS2SA1530AR-1
	Q1581	2SA1298Y(PDP-R03T)	VS2SA1298Y/-1Y
	Q1582	DTC144TE(PDP-R03T)	VSDTC144TE/-1Y
	Q1601	2SC3928AR	VS2SC3928AR-1
	Q1602	2SC3928AR	VS2SC3928AR-1
	Q2502	2SA1530AR	VS2SA1530AR-1
	Q2503	2SA1530AR	VS2SA1530AR-1
	Q2504	2SA1530AR	VS2SA1530AR-1
	Q2505	2SA1530AR	VS2SA1530AR-1
	Q2506	2SA1530AR	VS2SA1530AR-1
	Q2510	DTA144EE	VSDTA144EE/-1
	Q2511	DTC144EE	VSDTC144EE/-1

DIODE

	D1101	Zener Diode	RH-EX1264CEZZ
	D1102	Zener Diode	RH-EX1264CEZZ
	D1103	Diode	VHDHSU119//-1
	D1104	Diode	VHDHSU119//-1
	D1110	Zener Diode	RH-EX0207CEZZY
	D1301	Zener Diode	RH-EX1264CEZZ
	D1302	Zener Diode	RH-EX1264CEZZ
	D1303	Zener Diode	RH-EX1264CEZZ
	D1304	Zener Diode	RH-EX1264CEZZ
	D1305	Zener Diode	RH-EX1264CEZZ
	D1306	Zener Diode	RH-EX1264CEZZ
	D1307	Zener Diode	RH-EX1264CEZZ
	D1308	Zener Diode	RH-EX1264CEZZ
	D1309	Zener Diode	RH-EX1264CEZZ
	D1310	Zener Diode	RH-EX1264CEZZ
	D1311	Zener Diode	RH-EX1264CEZZ
	D1312	Zener Diode	RH-EX1264CEZZ
	D1313	Zener Diode	RH-EX1264CEZZ
	D1401	Diode	VHDMA157A//-1
	D1402	Diode	VHDMA157A//-1
	D1403	Diode	VHDMA157A//-1
	D1406	Diode	VHDMA157A//-1
	D1407	Diode	VHDMA157A//-1

Mark No.	Description	Part No.
D1411	Diode	VHDMA157A//-1
D1412	Diode	VHDMA157A//-1
D1413	Diode	VHDMA157A//-1
D1581	Diode(PDP-R03T)	VHDHSU119//-1
D1582	Diode(PDP-R03T)	VHDHSU119//-1
D1583	Diode(PDP-R03T)	VHDHSU119//-1
D2502	Diode	VHDDAN222//-1
D2503	Diode	VHD1SS250//1E
D2504	Diode	VHD1SS250//1E
D2505	Diode	VHDMA157A//-1
D2506	Diode	VHDHSU119//-1

PACKAGED CIRCUIT

X1601	Crystal	RCRSCA005WJZZY
X1602	Crystal	RCRSCA005WJZZY
X2501	Crystal	RCRSB0250GEZZ

FILTER, COIL

FL1101	Filter	RFiLN0017TAZZ
FL1102	Filter	RFiLN0017TAZZ
FL1103	Filter	RFiLN0017TAZZ
FL1104	Filter	RFiLN0017TAZZ
FL1105	Filter	RFiLN0017TAZZ
FL1106	Filter	RFiLN0017TAZZ
FL1107	Filter	RFiLN0017TAZZ
FL1108	Filter	RFiLN0017TAZZ
FL1109	Filter	RFiLN0017TAZZ
FL1110	Filter	RFiLN0017TAZZ
FL1111	Filter	RFiLN0017TAZZ
FL1112	Filter	RFiLN0017TAZZ
FL1113	Filter	RFiLN0017TAZZ
FL1114	Filter	RFiLN0017TAZZ
FL1115	Filter	RFiLN0017TAZZ
FL1116	Filter	RFiLN0017TAZZ
FL1117	Filter	RFiLN0017TAZZ
FL1118	Filter	RFiLN0017TAZZ
FL1119	Filter	RFiLN0003TAZZ
FL1120	Filter	RFiLN0003TAZZ
FL1121	Filter	RFiLN0003TAZZ
L1101	Peaking 4.7µH	VP-1M4R7J1R2N
L1102	Peaking 4.7µH	VP-1M4R7J1R2N
L1401	Peaking 10µH	VP-1M100J1R6N
L2501	Peaking 100µH	VP-1M101J7R7N
L2502	Peaking 4.7µH	VP-1M4R7J1R2N
L2503	Peaking 100µH	VP-1M101J7R7N
L2504	Peaking 4.7µH	VP-1M4R7J1R2N

CONTROL

R1121	Variable Resistor	RVR-M7997TAZZ
R1219	Variable Resistor	RVR-M7997TAZZ

CAPACITOR

C1101	0.01 50V Ceramic	VCKYCY1HB103K
C1102	220 6.3V Electrolytic	VCAAPF0JJ227MY
C1103	0.01 50V Ceramic	VCKYCY1HB103K
C1104	0.1 25V Ceramic	VCKYCY1EF104Z
C1105	100 6.3V Electrolytic	VCAAPF0JJ107MY
C1106	39 16V Electrolytic	VCAAPF1CJ396MY
C1107	0.1 25V Ceramic	VCKYCY1EF104Z
C1108	0.01 50V Ceramic	VCKYCY1HB103K
C1109	0.01 50V Ceramic	VCKYCY1HB103K
C1110	0.01 50V Ceramic	VCKYCY1HB103K

Mark No.	Description	Part No.
C1111	1000p 50V Ceramic	VCKYCY1HB102K
C1112	0.1 25V Ceramic	VCKYCY1EF104Z
C1113	10 16V Elect.(N.P)	VCE9PF1CW106M
C1114	0.1 25V Ceramic	VCKYCY1EF104Z
C1115	0.01 50V Ceramic	VCKYCY1HB103K
C1116	0.01 50V Ceramic	VCKYCY1HB103K
C1119	0.01 50V Ceramic	VCKYCY1HB103K
C1120	0.01 50V Ceramic	VCKYCY1HB103K
C1121	0.1 25V Ceramic	VCKYCY1EF104Z
C1122	0.01 50V Ceramic	VCKYCY1HB103K
C1123	1.0 16V Ceramic	VCKYTV1CB105K
C1124	1.0 16V Ceramic	VCKYTV1CB105K
C1125	0.01 50V Ceramic	VCKYCY1HB103K
C1126	0.01 50V Ceramic	VCKYCY1HB103K
C1127	0.1 25V Ceramic	VCKYCY1EF104Z
C1128	0.01 50V Ceramic	VCKYCY1HB103K
C1129	0.01 50V Ceramic	VCKYCY1HB103K
C1130	0.01 50V Ceramic	VCKYCY1HB103K
C1131	0.01 50V Ceramic	VCKYCY1HB103K
C1132	0.1 25V Ceramic	VCKYCY1EF104Z
C1133	1.0 16V Ceramic	VCKYTV1CB105K
C1134	470 16V Electrolytic	VCEAPW1CN477M
C1135	1.0 16V Ceramic	VCKYTV1CB105K
C1136	10 16V Electrolytic	VCEAPF1CW106M
C1137	1.0 16V Ceramic	VCKYTV1CB105K
C1138	1.0 16V Ceramic	VCKYTV1CB105K
C1139	10 16V Electrolytic	VCEAPF1CW106M
C1140	1.0 16V Ceramic	VCKYTV1CB105K
C1141	1.0 16V Ceramic	VCKYTV1CB105K
C1142	10 16V Electrolytic	VCEAPF1CW106M
C1143	1.0 16V Ceramic	VCKYTV1CB105K
C1144	1.0 16V Ceramic	VCKYTV1CB105K
C1145	1.0 16V Ceramic	VCKYTV1CB105K
C1146	470 16V Electrolytic	VCEAPW1CN477M
C1147	1.0 16V Ceramic	VCKYTV1CB105K
C1148	1.0 16V Ceramic	VCKYTV1CB105K
C1149	1.0 16V Ceramic	VCKYTV1CB105K
C1150	1.0 16V Ceramic	VCKYTV1CB105K
C1151	1.0 16V Ceramic	VCKYTV1CB105K
C1152	1.0 16V Ceramic	VCKYTV1CB105K
C1153	33p 50V Ceramic	VCCCCY1HH330J
C1154	33p 50V Ceramic	VCCCCY1HH330J
C1155	10 16V Electrolytic	VCEAPF1CW106M
C1156	10 16V Electrolytic	VCEAPF1CW106M
C1157	10 16V Electrolytic	VCEAPF1CW106M
C1158	10 16V Electrolytic	VCEAPF1CW106M
C1159	0.1 25V Ceramic	VCKYCY1EF104Z
C1160	0.01 50V Ceramic	VCKYCY1HB103K
C1161	220 6.3V Electrolytic	VCAAPF0JJ227MY
C1162	0.01 50V Ceramic	VCKYCY1HB103K
C1164	100 6.3V Electrolytic	VCAAPF0JJ107MY
C1165	39 16V Electrolytic	VCAAPF1CJ396MY
C1166	100p 50V Ceramic	VCCCCY1HH101J
C1167	100p 50V Ceramic	VCCCCY1HH101J
C1168	100p 50V Ceramic	VCCCCY1HH101J
C1169	100p 50V Ceramic	VCCCCY1HH101J
C1170	100p 50V Ceramic	VCCCCY1HH101J
C1171	100p 50V Ceramic	VCCCCY1HH101J
C1172	100p 50V Ceramic	VCCCCY1HH101J
C1173	100p 50V Ceramic	VCCCCY1HH101J

Mark	No.	Description	Part No.
	C1174	10 16V Electrolytic	VCEAPF1CN106M
	C1175	10 16V Electrolytic	VCEAPF1CN106M
A	C1176	10 16V Electrolytic	VCEAPF1CN106M
	C1177	0.1 25V Ceramic	VCKYCY1EF104Z
	C1178	0.1 25V Ceramic	VCKYCY1EF104Z
	C1179	1000p 50V Ceramic	VCKYCY1HB102K
	C1180	10 16V Elect.(N.P)	VCE9PF1CW106M
	C1181	0.1 25V Ceramic	VCKYCY1EF104Z
	C1182	10 50V Electrolytic	VCEAPF1HW106MY
	C1309	0.1 25V Ceramic	VCKYCY1EF104Z
	C1310	0.1 25V Ceramic	VCKYCY1EF104Z
	C1311	22 16V Electrolytic	VCEAPF1CW226M
	C1312	10 10V Elect.(N.P)	VCE9PF1AW106M
B	C1313	1000p 50V Ceramic	VCKYCY1HB102K
	C1314	1000p 50V Ceramic	VCKYCY1HB102K
	C1316	1.0 16V Ceramic	VCKYTV1CB105K
	C1320	100p 50V Ceramic	VCCCCY1HH101J
	C1321	100p 50V Ceramic	VCCCCY1HH101J
	C1324	100p 50V Ceramic	VCCCCY1HH101J
	C1325	100p 50V Ceramic	VCCCCY1HH101J
	C1326	100p 50V Ceramic	VCCCCY1HH101J
	C1327	100p 50V Ceramic	VCCCCY1HH101J
	C1328	0.1 25V Ceramic	VCKYCY1EF104Z
	C1401	0.1 16V Ceramic	VCKYCY1CB104K
C	C1402	0.1 16V Ceramic	VCKYCY1CB104K
	C1404	0.1 16V Ceramic	VCKYCY1CB104K
	C1406	0.1 25V Ceramic	VCKYCY1EF104Z
	C1407	0.1 25V Ceramic	VCKYCY1EF104Z
	C1408	0.1 25V Ceramic	VCKYCY1EF104Z
	C1409	100 16V Electrolytic	VCEAPF1CW107M
	C1410	0.1 16V Ceramic	VCKYCY1CB104K
	C1411	0.1 16V Ceramic	VCKYCY1CB104K
	C1412	1.0 16V Ceramic	VCKYTV1CB105K
	C1413	1.0 16V Ceramic	VCKYTV1CB105K
	C1415	0.1 25V Ceramic	VCKYCY1EF104Z
D	C1417	0.1 25V Ceramic	VCKYCY1EF104Z
	C1419	0.1 25V Ceramic	VCKYCY1EF104Z
	C1420	1.0 16V Ceramic	VCKYTV1CB105K
	C1421	1.0 16V Ceramic	VCKYTV1CB105K
	C1422	100 16V Electrolytic	VCEAPF1CW107M
	C1434	0.1 16V Ceramic	VCKYCY1CB104K
	C1435	0.1 16V Ceramic	VCKYCY1CB104K
	C1436	0.1 16V Ceramic	VCKYCY1CB104K
	C1581	22 16V Electrolytic(PDP-R03T)	VCEAPF1CW226M
	C1601	0.1 16V Ceramic	VCKYCY1CB104K
E	C1602	27p 50V Ceramic	VCCCCY1HH270J
	C1603	18p 50V Ceramic	VCCCCY1HH180J
	C1604	560p 50V Ceramic	VCCCCY1HH561JY
	C1605	0.1 25V Ceramic	VCKYCY1EF104Z
	C1606	0.068 16V Ceramic	VCKYCY1CB683KY
	C1607	6800p 50V Ceramic	VCKYCY1HB682KY
	C1608	0.1 25V Ceramic	VCKYCY1EF104Z
	C1609	0.1 25V Ceramic	VCKYCY1EF104Z
	C1612	0.1 16V Ceramic	VCKYCY1CB104K
	C1614	560p 50V Ceramic	VCCCCY1HH561JY
	C1615	0.1 25V Ceramic	VCKYCY1EF104Z
F	C1616	0.068 16V Ceramic	VCKYCY1CB683KY
	C1617	6800p 50V Ceramic	VCKYCY1HB682KY
	C1618	0.1 25V Ceramic	VCKYCY1EF104Z
	C1619	100 6.3V Electrolytic	VCEAPF0JW107M

Mark	No.	Description	Part No.
	C1621	0.1 25V Ceramic	VCKYCY1EF104Z
	C1622	0.1 16V Ceramic	VCKYCY1CB104K
	C1623	27p 50V Ceramic	VCCCCY1HH270J
	C1624	18p 50V Ceramic	VCCCCY1HH180J
	C1625	560p 50V Ceramic	VCCCCY1HH561JY
	C1626	0.1 25V Ceramic	VCKYCY1EF104Z
	C1627	6800p 50V Ceramic	VCKYCY1HB682KY
	C1628	0.068 16V Ceramic	VCKYCY1CB683KY
	C1629	0.1 25V Ceramic	VCKYCY1EF104Z
	C1630	100 6.3V Electrolytic	VCEAPF0JW107M
	C1640	150p 50V Ceramic	VCCCCY1HH151J
	C1641	150p 50V Ceramic	VCCCCY1HH151J
	C1642	150p 50V Ceramic	VCCCCY1HH151J
	C1643	150p 50V Ceramic	VCCCCY1HH151J
	C1644	150p 50V Ceramic	VCCCCY1HH151J
	C1645	150p 50V Ceramic	VCCCCY1HH151J
	C2501	0.1 25V Ceramic	VCKYCY1EF104Z
	C2502	100 6.3V Electrolytic	VCEAPF0JW107M
	C2503	0.1 25V Ceramic	VCKYCY1EF104Z
	C2512	3300p 50V Ceramic	VCKYCY1HB332K
	C2513	3300p 50V Ceramic	VCKYCY1HB332K
	C2514	3300p 50V Ceramic	VCKYCY1HB332K
	C2515	3300p 50V Ceramic	VCKYCY1HB332K
	C2516	10 16V Electrolytic	VCEAPF1CW106M
	C2517	10 16V Electrolytic	VCEAPF1CW106M
	C2518	0.1 25V Ceramic	VCKYCY1EF104Z
	C2519	100 16V Electrolytic	VCEAPF1CW107M
	C2520	100 16V Electrolytic	VCEAPF1CW107M
	C2521	3.3 50V Electrolytic	VCEAPF1HW335M
	C2522	0.1 25V Ceramic	VCKYCY1EF104Z
	C2523	1.0 16V Ceramic	VCKYTV1CB105K
	C2524	1.0 16V Ceramic	VCKYTV1CB105K
	C2525	1.0 16V Ceramic	VCKYTV1CB105K
	C2526	1.0 16V Ceramic	VCKYTV1CB105K
	C2527	0.1 25V Ceramic	VCKYCY1EF104Z
	C2528	10 16V Electrolytic	VCEAPF1CW106M
	C2529	1.0 16V Ceramic	VCKYTV1CB105K
	C2530	100 6.3V Electrolytic	VCEAPF0JW107M
	C2531	56p 50V Ceramic	VCCCCY1HH560J
	C2532	0.01 50V Ceramic	VCKYCY1HB103K
	C2533	56p 50V Ceramic	VCCCCY1HH560J
	C2534	5.0p 50V Ceramic	VCCCCY1HH5R0C
	C2535	5.0p 50V Ceramic	VCCCCY1HH5R0C
	C2536	470 6.3V Electrolytic	VCEASH0JN477MY
	C2537	1.0 16V Ceramic	VCKYTV1CB105K
	C2538	1.0 16V Ceramic	VCKYTV1CB105K
	C2539	1.0 16V Ceramic	VCKYTV1CB105K
	C2543	1.0 16V Ceramic	VCKYTV1CB105K
	C2544	1.0 16V Ceramic	VCKYTV1CB105K
	C2545	1.0 16V Ceramic	VCKYTV1CB105K
	C2546	1.0 16V Ceramic	VCKYTV1CB105K
	C2547	0.1 25V Ceramic	VCKYCY1EF104Z
	C2548	0.1 25V Ceramic	VCKYCY1EF104Z
	C2553	0.01 50V Ceramic	VCKYCY1HB103K
	C2554	0.01 50V Ceramic	VCKYCY1HB103K

RESISTOR

	R1104	68 1/16W Metal Oxide	VRS-CY1JF680JY
	R1105	68 1/16W Metal Oxide	VRS-CY1JF680JY
	R1107	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1110	68k 1/16W Metal Oxide	VRS-CY1JF683J

Mark No.	Description	Part No.
R1112	100 1/16W Metal Oxide	VRS-CY1JF101J
R1113	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1114	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R1115	100 1/16W Metal Oxide	VRS-CY1JF101J
R1116	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R1117	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1118	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1119	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1120	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1122	470 1/16W Metal Oxide	VRS-CY1JF471J
R1123	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1124	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1125	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1126	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1127	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1128	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1129	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1130	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1131	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1135	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1136	270k 1/16W Metal Oxide	VRS-CY1JF274JY
R1137	75 1/16W Metal Oxide	VRS-TV1JD750JY
R1138	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1139	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1140	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1141	270k 1/16W Metal Oxide	VRS-CY1JF274JY
R1142	75 1/16W Metal Oxide	VRS-TV1JD750JY
R1143	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1144	270k 1/16W Metal Oxide	VRS-CY1JF274JY
R1145	75 1/16W Metal Oxide	VRS-TV1JD750JY
R1146	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1147	68 1/2W Metal Oxide	VRS-TX2HF680J
R1148	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1149	68 1/2W Metal Oxide	VRS-TX2HF680J
R1150	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1151	100 1/16W Metal Oxide	VRS-CY1JF101J
R1152	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1153	100 1/16W Metal Oxide	VRS-CY1JF101J
R1154	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1155	100 1/16W Metal Oxide	VRS-CY1JF101J
R1156	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1157	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1158	220 1/16W Metal Oxide	VRS-CY1JF221J
R1159	220 1/16W Metal Oxide	VRS-CY1JF221J
R1160	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1161	220 1/16W Metal Oxide	VRS-CY1JF221J
R1162	220 1/16W Metal Oxide	VRS-CY1JF221J
R1163	100 1/16W Metal Oxide	VRS-CY1JF101J
R1164	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1165	68 1/2W Metal Oxide	VRS-TX2HF680J
R1166	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1167	220 1/16W Metal Oxide	VRS-CY1JF221J
R1168	270 1/16W Metal Oxide	VRS-CY1JF271J
R1169	220k 1/16W Metal Oxide	VRS-CY1JF224J
R1170	220 1/16W Metal Oxide	VRS-CY1JF221J
R1171	270 1/16W Metal Oxide	VRS-CY1JF271J
R1172	220k 1/16W Metal Oxide	VRS-CY1JF224J
R1173	560k 1/16W Metal Oxide	VRS-CY1JF564J
R1174	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1175	560k 1/16W Metal Oxide	VRS-CY1JF564J

Mark No.	Description	Part No.
R1176	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1177	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1178	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1179	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1180	100 1/16W Metal Oxide	VRS-CY1JF101J
R1181	100 1/16W Metal Oxide	VRS-CY1JF101J
R1182	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1183	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1184	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1185	100 1/16W Metal Oxide	VRS-CY1JF101J
R1186	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1187	560 1/16W Metal Oxide	VRS-CY1JF561J
R1188	560 1/16W Metal Oxide	VRS-CY1JF561J
R1189	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1190	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1191	100 1/16W Metal Oxide	VRS-CY1JF101J
R1192	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1196	68 1/16W Metal Oxide	VRS-CY1JF680JY
R1197	68 1/16W Metal Oxide	VRS-CY1JF680JY
R1199	0 1/16W Metal Oxide	VRS-CY1JF000J
R1202	68k 1/16W Metal Oxide	VRS-CY1JF683J
R1204	100 1/16W Metal Oxide	VRS-CY1JF101J
R1205	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1206	560 1/8W Metal Oxide	VRS-TQ2BD561J
R1207	75 1/4W Metal Oxide	VRS-TW2ED750J
R1208	75 1/4W Metal Oxide	VRS-TW2ED750J
R1209	75 1/4W Metal Oxide	VRS-TW2ED750J
R1210	100 1/16W Metal Oxide	VRS-CY1JF101J
R1211	100 1/16W Metal Oxide	VRS-CY1JF101J
R1212	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R1213	100 1/16W Metal Oxide	VRS-CY1JF101J
R1214	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R1215	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1216	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1217	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1218	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1220	470 1/16W Metal Oxide	VRS-CY1JF471J
R1301	100 1/16W Metal Oxide	VRS-CY1JF101J
R1302	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1303	100 1/16W Metal Oxide	VRS-CY1JF101J
R1304	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1305	100 1/16W Metal Oxide	VRS-CY1JF101J
R1306	100 1/16W Metal Oxide	VRS-CY1JF101J
R1307	100 1/16W Metal Oxide	VRS-CY1JF101J
R1308	100 1/16W Metal Oxide	VRS-CY1JF101J
R1309	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1310	100 1/16W Metal Oxide	VRS-CY1JF101J
R1311	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1312	100 1/16W Metal Oxide	VRS-CY1JF101J
R1313	100 1/16W Metal Oxide	VRS-CY1JF101J
R1314	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1315	100 1/16W Metal Oxide	VRS-CY1JF101J
R1316	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1317	100 1/16W Metal Oxide	VRS-CY1JF101J
R1318	100 1/16W Metal Oxide	VRS-CY1JF101J
R1319	100 1/16W Metal Oxide	VRS-CY1JF101J
R1320	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1321	100 1/16W Metal Oxide	VRS-CY1JF101J
R1322	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1323	100 1/16W Metal Oxide	VRS-CY1JF101J

Mark	No.	Description	Part No.
	R1324	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1325	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1326	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1327	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1328	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1329	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1330	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1331	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1332	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1334	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1335	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1336	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1337	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1338	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1339	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1340	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1341	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1342	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1343	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1344	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1345	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1348	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1349	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1350	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1354	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1405	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1406	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1407	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1408	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1409	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1411	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1412	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1413	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1418	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1421	100 1/16W Metal Oxide	VRS-CA1JF101J
	R1422	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1423	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1424	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1425	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1429	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1430	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1431	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1432	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1433	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1437	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1438	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1439	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1443	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1445	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1446	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1457	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1458	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1459	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1460	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1461	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1462	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1463	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1581	33 1W Metal Oxide(PDP-R03T)	VRS-CR3AD330J
	R1582	10k 1/16W Metal Oxide(PDP-R03T)	VRS-CY1JF103J
	R1583	560 1/16W Metal Oxide(PDP-R03T)	VRS-CY1JF561J
	R1584	1.0k 1/16W Metal Oxide(PDP-R03T)	VRS-CY1JF102J
	R1601	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1602	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1603	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1604	820k 1/16W Metal Oxide	VRS-CY1JF824JY
	R1605	Resistor	RR-SZ0080CEZZY
	R1606	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1607	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1608	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1609	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1610	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1611	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1612	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1613	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1614	120 1/16W Metal Oxide	VRS-CY1JF121JY
	R1615	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1616	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1617	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1618	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1619	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1620	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1623	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1624	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1625	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1626	820k 1/16W Metal Oxide	VRS-CY1JF824JY
	R1627	Resistor	RR-SZ0080CEZZY
	R1629	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1630	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1631	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1632	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1633	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1634	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1635	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1636	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1637	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1638	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1639	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1640	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1641	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1642	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1643	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1644	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1645	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1650	330 1/16W Metal Oxide	VRS-CY1JF331J
	R1651	330 1/16W Metal Oxide	VRS-CY1JF331J
	R1652	330 1/16W Metal Oxide	VRS-CY1JF331J
	R2501	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2502	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2503	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2505	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2510	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R2511	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R2513	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2514	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2515	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2516	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2517	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2518	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2519	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

Mark	No.	Description	Part No.
	R2520	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2521	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2522	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2523	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
	R2524	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R2525	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2526	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R2527	0 1/16W Metal Oxide	VRS-CY1JF000J
	R2528	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2531	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2534	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2535	22 1/16W Metal Oxide	VRS-CY1JF220J
	R2537	22 1/16W Metal Oxide	VRS-CY1JF220J
	R2538	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2539	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2540	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2542	0 1/16W Metal Oxide	VRS-CY1JF000J
	R2555	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2556	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

MISCELLANEOUS PARTS

	FB1101	Ferrite Bead	RBLN-0065CEZZY
	FB1102	Ferrite Bead	RBLN-0065CEZZY
	FB1103	Ferrite Bead	RBLN-0062TAZZ
	FB1104	Ferrite Bead	RBLN-0062TAZZ
	FB1105	Ferrite Bead	RBLN-0062TAZZ
	FB1106	Ferrite Bead	RBLN-0062TAZZ
	FB1107	Ferrite Bead	RBLN-0062TAZZ
	FB1108	Ferrite Bead	RBLN-0062TAZZ
	FB1109	Ferrite Bead	RBLN-0062TAZZ
	FB1110	Ferrite Bead	RBLN-0062TAZZ
	FB1401	Ferrite Bead	RBLN-0061TAZZ
	FB1402	Ferrite Bead	RBLN-0061TAZZ
	FB1602	Ferrite Bead	RBLN-0064TAZZY
	FB2501	Ferrite Bead	RBLN-0051TAZZ
	FB2502	Ferrite Bead	RBLN-0060TAZZ
	FB2503	Ferrite Bead	RBLN-0051TAZZ
	FB2504	Ferrite Bead	RBLN-0051TAZZ
	FB2505	Ferrite Bead	RBLN-0051TAZZ
	FB2506	Ferrite Bead	RBLN-0051TAZZ
	FB2507	Ferrite Bead	RBLN-0051TAZZ
	J1103	Video 1/2,Compo 1IN	QTANJ0974CEZZ
	J1104	Video 3,Compo 3IN,Monitor	QTANJ0974CEZZ
	P1301	Plug 18-Pin	QPLGN0428FJZZ
	P1402	Socket 30-Pin	QSOCN0490FJZZ
	P2501	Plug 12-Pin	QPLGN0062CEZZY
	P2502	Plug 4-Pin	QPLGN0478GEZZ
	P2503	Plug 5-Pin	QPLGN0578GEZZ
	SC1101	Socket DINx2	QSOCD0834CEZZ
	SC1102	Socket DINx2	QSOCD0834CEZZ
	SC1103	Socket 15Pin D-sub	QSOCN1594CEZZ
	SC1401	Socket 30-Pin	QSOCN0550FJZZY
		Connecting Cord	QCNW-6073CEZZ
		Connecting Cord	QCNW-6079CEZZ

D LED UNIT

TRANSISTOR

	Q3001	2SC3928AR	VS2SC3928AR-1
	Q3002	2SC3928AR	VS2SC3928AR-1
	Q3003	DTC144EE	VSDTC144EE/-1
	Q3004	DTC144EE	VSDTC144EE/-1
	Q3005	DTC144EE	VSDTC144EE/-1

DIODE

	D3001	Photodiode	RH-PX0421CEZZ

RESISTOR

	R3001	470 1/16W Metal Oxide	VRS-CY1JF471J
	R3002	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R3003	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3004	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R3005	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3006	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3007	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3008	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3010	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3011	0 1/16W Metal Oxide	VRS-CY1JF000J
	R3012	0 1/16W Metal Oxide	VRS-CY1JF000J

MISCELLANEOUS PARTS

	P3001	Plug 5-Pin	QPLGN0564TAZZ
		Connecting Cord	QCNW-6076CEZZ

E SR UNIT

TRANSISTOR

	Q6001	2SC3928AR	VS2SC3928AR-1
	Q6002	2SA1530AR	VS2SA1530AR-1
	Q6003	2SA1530AR	VS2SA1530AR-1
	Q6004	2SC3928AR	VS2SC3928AR-1
	Q6005	DTC314TK	VSDTC314TK/-1
	Q6006	DTC314TK	VSDTC314TK/-1
	Q6007	2SA1530AR	VS2SA1530AR-1
	Q6008	2SC3928AR	VS2SC3928AR-1

DIODE

	D6000	Diode	VHDMA157A//-1
	D6001	Diode	VHDMA157A//-1
	D6002	Zener Diode	RH-EX1264CEZZ
	D6003	Zener Diode	RH-EX1264CEZZ
	D6004	Diode	VHDMA157A//-1
	D6006	Diode	VHDMA157A//-1
	D6007	Diode	VHDMA157A//-1
	D6008	Diode	VHD1SS355//-1
	D6009	Diode	VHD1SS355//-1
	D6010	Diode	VHD1SS355//-1
	D6011	Zener Diode	RH-EX1264CEZZ
	D6012	Zener Diode	RH-EX1264CEZZ
	D6013	Diode	VHDMA157A//-1
	D6014	Diode	VHDMA157A//-1
	D6015	Zener Diode	RH-EX1232CEZZY

CAPACITOR

	C6000	10 16V Electrolytic	VCEAPF1CW106M
	C6001	10 16V Electrolytic	VCEAPF1CW106M
	C6002	0.1 25V Ceramic	VCKYCY1EF104Z
	C6003	1.0 10V Ceramic	VCKYCY1AF105Z
	C6004	1.0 10V Ceramic	VCKYCY1AF105Z

RESISTOR

	R6000	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6001	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6002	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6003	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R6004	56 1/16W Metal Oxide	VRS-CY1JF560J

Mark No.	Description	Part No.
R6005	56 1/16W Metal Oxide	VRS-CY1JF560J
R6006	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R6007	56 1/16W Metal Oxide	VRS-CY1JF560J
R6011	470 1/16W Metal Oxide	VRS-CY1JF471J
R6012	470 1/16W Metal Oxide	VRS-CY1JF471J
R6013	0 1/8W Metal Oxide	VRS-TQ2BD000J
R6014	0 1/8W Metal Oxide	VRS-TQ2BD000J
R6015	220 1/16W Metal Oxide	VRS-CY1JF221J
R6016	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R6017	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6018	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6019	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R6020	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R6021	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R6022	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6023	220k 1/16W Metal Oxide	VRS-CY1JF224J
R6024	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6025	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6030	100k 1/16W Metal Oxide	VRS-CY1JF104J
R6031	100k 1/16W Metal Oxide	VRS-CY1JF104J
R6032	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R6033	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R6036	22k 1/16W Metal Oxide	VRS-CY1JF223J
R6037	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6038	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6039	680 1/16W Metal Oxide	VRS-CY1JF681J
R6040	1.0M 1/16W Metal Oxide	VRS-CY1JF105J

MISCELLANEOUS PARTS

FB6000	Ferrite Bead	RBLN-0060TAZZ
FB6001	Ferrite Bead	RBLN-0060TAZZ
FB6002	Ferrite Bead	RBLN-0060TAZZ
J6001	Jack	QJAKJ0110CEZZ
J6002	Jack	QJAKJ0110CEZZ
P6000	Plug 14-Pin	QPLGN1474TAZZY
P6001	Plug 4-Pin	QPLGN0480GEZZ
SC6000	Socket 15-Pin D-Sub	QSOCZ2015CEZZ
	Connecting Cord	QCNW-A280WJZZ

F PC I/F UNIT

IC

IC2	PST600IM	9DK001-15061
IC3	AT24C128N-10SC-1.8	9DK001-11020
IC4	CXA3506R	9DK001-15079
IC7	PQ05TZ11	9DK001-15038
IC8	PQ20VZ11	9DK001-15071
IC19	PST623XW	9DK001-15060
IC27	LH28F320S3NS-L11	RH-IX3430CEZZQ
IC28	MSM51V181865F-60TS-K	9DK001-11027
IC53	74LVX86MTC	9DK001-12079
IC310	TLC5733A	9DK001-15082
IC316	TL431CPS	9DK001-15053
IC319	HY57V653220BTC-7	9DK001-11024
IC320	HY57V653220BTC-7	9DK001-11024
IC321	HY57V653220BTC-7	9DK001-11024
IC322	HY57V653220BTC-7	9DK001-11024
IC327	NJM4560M	9DK001-15084
IC328	TLC2933IPW	9DK001-15054
IC400	74LVX86MTC	9DK001-12079
IC402	74LVX125MTC	9DK001-12105
IC404	74LVX125MTC	9DK001-12105
IC405	uPD4721G	9DK001-15107
IC408	HD74HCT244T	9DK001-12085
	or 74VHCT244AMTC	9DK001-12086
IC410	HD74HCT244T	9DK001-12085
	or 74VHCT244AMTC	9DK001-12086
IC411	74LCX157MTC	9DK001-12103
IC412	PQ1R33	9DK001-15093
IC415	BA09FP	9DK001-15109
IC419	TC7WH123FK	9DK001-12102
IC420	TC7WH126FK	9DK001-12096
IC422	HD74HCT125T	9DK001-12070
IC423	TC7WH123FK	9DK001-12102
IC424	NC7S08P5	9DK001-12106

TRANSISTOR

Q12	IMB3A	9DK001-20025
Q13	2SC2412KQ	9DK001-20011
Q15	2SA1037AKQ	9DK001-20012
Q102	NDC7002N	9DK001-20036
Q103	2SC2412KQ	9DK001-20011
Q104	2SC2412KQ	9DK001-20011
Q105	2SC2412KQ	9DK001-20011
Q107	2SC2412KQ	9DK001-20011
Q108	2SC2412KQ	9DK001-20011
Q109	2SC2412KQ	9DK001-20011
Q110	2SC2412KQ	9DK001-20011
Q111	2SA1037AKQ	9DK001-20012
Q112	2SA1037AKQ	9DK001-20012
Q113	2SA1037AKQ	9DK001-20012
Q114	2SC2412KQ	9DK001-20011
Q117	2SC2412KQ	9DK001-20011
Q118	2SC2412KQ	9DK001-20011
Q119	2SC2412KQ	9DK001-20011
Q120	NDC7002N	9DK001-20036

DIODE

D9	Diode 1SS187	9DK001-30018
D20	Diode 1SS187	9DK001-30018
D50	Diode 1SS193	9DK001-30001
D51	Diode 1SS193	9DK001-30001
D52	Diode 1SS193	9DK001-30001
D53	Diode 1SS193	9DK001-30001
D54	Diode MA3120WA	9DK001-30022
D55	Diode MA3120WA	9DK001-30022
D56	Diode MA3120WA	9DK001-30022
D57	Diode MA3120WA	9DK001-30022
D70	Diode 1SS355	9DK001-30020
D71	Diode 1SS355	9DK001-30020
D72	Diode 1SS355	9DK001-30020
D73	Diode 1SS400	9DK001-30021
D75	Diode 1SS187	9DK001-30018
D76	Diode 1SS187	9DK001-30018
D77	Diode 1SS400	9DK001-30021

PACKAGED CIRCUIT

X1	Crystal, 6MHz	9DK001-80012
X3	Crystal, FXO-31FL (1.8432MHz)	9DK001-80011
X4	Crystal, FXO-31FL (25MHz)	9DK001-80018

Mark No.	Description	Part No.
X5	Crystal, DS07515V (79.794MHz)	9DK001-80029
X6	Crystal, 25.175MHz	9DK001-80031

FILTER AND COIL

FL5	Filter BMK351	9DK001-81020
FL6	Filter BMK351	9DK001-81020
FL10	Filter BMK351	9DK001-81020
FL20	Filter BMK351	9DK001-81020
FL21	Filter BMK351	9DK001-81020
FL22	Filter BMK351	9DK001-81020
FL23	Filter BMK351	9DK001-81020
FL29	Filter BMK351	9DK001-81020
FL30	Filter BMK351	9DK001-81020
FL31	Filter BMK351	9DK001-81020
FL32	Filter BMK351	9DK001-81020
FL94	Filter BMK351	9DK001-81020
FL95	Filter BMK351	9DK001-81020
FL96	Filter BMK351	9DK001-81020
FL97	Filter BMK351	9DK001-81020
FL200	Filter BMK351	9DK001-81020
FL201	Filter BMK351	9DK001-81020
FL204	Filter BMK351	9DK001-81020
L1	Inductor NLC322522T-3R3M	9DK001-81052
L2	Inductor NLC322522T-3R3M	9DK001-81052
L3	Inductor NLC322522T-3R3M	9DK001-81052
L4	Inductor NLC322522T-3R3M	9DK001-81052
L22	Inductor NLC322522T-3R3M	9DK001-81052
L100	Inductor NLC322522T-3R3M	9DK001-81052
L101	Inductor NLC322522T-3R3M	9DK001-81052

CAPACITOR

C1	0.1 25V Ceramic	9DK001-42094
C2	0.1 25V Ceramic	9DK001-42094
C6	0.01 50V Ceramic	9DK001-42096
C7	0.01 50V Ceramic	9DK001-42096
C8	0.01 50V Ceramic	9DK001-42096
C9	0.01 50V Ceramic	9DK001-42096
C10	10 10V Ceramic	9DK001-42131
	or 10 25V Ceramic	9DK001-42118
C12	15p 50V Ceramic	9DK001-42103
C13	15p 50V Ceramic	9DK001-42103
C14	0.01 50V Ceramic	9DK001-42096
C15	10 10V Ceramic	9DK001-42131
	or 10 25V Ceramic	9DK001-42118
C17	0.01 50V Ceramic	9DK001-42096
C18	0.01 50V Ceramic	9DK001-42096
C19	470p 50V Ceramic	9DK001-42104
C20	470p 50V Ceramic	9DK001-42104
C21	0.01 50V Ceramic	9DK001-42096
C22	0.01 50V Ceramic	9DK001-42096
C23	0.01 50V Ceramic	9DK001-42096
C24	10 16V EL	9DK001-40077
C25	0.01 50V Ceramic	9DK001-42096
C26	0.01 50V Ceramic	9DK001-42096
C27	0.01 50V Ceramic	9DK001-42096
C28	0.01 50V Ceramic	9DK001-42096
C29	0.01 50V Ceramic	9DK001-42096
C30	0.047 50V Ceramic	9DK001-42105
C31	0.1 25V Ceramic	9DK001-42094
C32	0.1 25V Ceramic	9DK001-42094
C33	0.1 25V Ceramic	9DK001-42094

Mark No.	Description	Part No.
C34	0.01 50V Ceramic	9DK001-42096
C35	0.01 50V Ceramic	9DK001-42096
C36	0.01 50V Ceramic	9DK001-42096
C37	0.01 50V Ceramic	9DK001-42096
C38	0.01 50V Ceramic	9DK001-42096
C42	0.01 50V Ceramic	9DK001-42096
C43	0.01 50V Ceramic	9DK001-42096
C51	0.01 50V Ceramic	9DK001-42096
C52	0.01 50V Ceramic	9DK001-42096
C53	0.01 50V Ceramic	9DK001-42096
C62	0.1 25V Ceramic	9DK001-42094
C70	0.1 25V Ceramic	9DK001-42094
C78	0.1 25V Ceramic	9DK001-42094
C79	47 6.3V EL	9DK001-40089
C80	47 16V EL	9DK001-40079
C81	0.01 50V Ceramic	9DK001-42096
C82	0.01 50V Ceramic	9DK001-42096
C83	0.01 50V Ceramic	9DK001-42096
C84	47 6.3V EL	9DK001-40089
C96	47 6.3V EL	9DK001-40089
C110	0.1 25V Ceramic	9DK001-42094
C111	0.1 25V Ceramic	9DK001-42094
C112	0.1 25V Ceramic	9DK001-42094
C113	1 10V Ceramic	9DK001-42111
C114	0.1 25V Ceramic	9DK001-42094
C115	0.1 25V Ceramic	9DK001-42094
C116	0.1 25V Ceramic	9DK001-42094
C117	0.1 25V Ceramic	9DK001-42094
C118	0.1 25V Ceramic	9DK001-42094
C119	0.1 25V Ceramic	9DK001-42094
C120	0.1 25V Ceramic	9DK001-42094
C121	0.1 25V Ceramic	9DK001-42094
C122	1 10V Ceramic	9DK001-42111
C123	0.1 25V Ceramic	9DK001-42094
C124	0.1 25V Ceramic	9DK001-42094
C125	0.1 25V Ceramic	9DK001-42094
C126	0.1 25V Ceramic	9DK001-42094
C127	100p 50V Ceramic	9DK001-42099
C128	0.33 16V Film	9DK001-42149
C130	100p 50V Ceramic	9DK001-42099
C131	0.1 25V Ceramic	9DK001-42094
C132	0.1 25V Ceramic	9DK001-42094
C133	0.1 25V Ceramic	9DK001-42094
C134	0.1 25V Ceramic	9DK001-42094
C135	0.1 25V Ceramic	9DK001-42094
C136	0.1 25V Ceramic	9DK001-42094
C137	0.1 25V Ceramic	9DK001-42094
C138	0.1 25V Ceramic	9DK001-42094
C143	0.01 50V Ceramic	9DK001-42096
C144	47 6.3V EL	9DK001-40089
C145	0.01 50V Ceramic	9DK001-42096
C146	47 6.3V EL	9DK001-40089
C147	0.01 50V Ceramic	9DK001-42096
C148	47 6.3V EL	9DK001-40089
C149	0.01 50V Ceramic	9DK001-42096
C350	0.01 50V Ceramic	9DK001-42096
C361	47 6.3V EL	9DK001-40089
C366	100 6.3V EL	9DK001-40080
C367	100 4V EL	9DK001-40091
C531	47 6.3V EL	9DK001-40089

Mark No.	Description	Part No.	Mark No.	Description	Part No.
C532	0.01 50V Ceramic	9DK001-42096	C716	0.01 50V Ceramic	9DK001-42096
C537	10 16V EL	9DK001-40077	C717	0.01 50V Ceramic	9DK001-42096
C538	0.1 25V Ceramic	9DK001-42094	C741	47 6.3V EL	9DK001-40089
C542	10 16V EL	9DK001-40077	C757	4.7 10V Ceramic	9DK001-42113
C543	0.1 25V Ceramic	9DK001-42094	C759	0.01 50V Ceramic	9DK001-42096
C544	2200p 50V Ceramic	9DK001-42102	C762	0.1 25V Ceramic	9DK001-42094
C545	2200p 50V Ceramic	9DK001-42102	C763	0.1 25V Ceramic	9DK001-42094
C546	2200p 50V Ceramic	9DK001-42102	C764	0.1 25V Ceramic	9DK001-42094
C550	10 16V EL	9DK001-40077	C766	0.1 25V Ceramic	9DK001-42094
C551	0.1 25V Ceramic	9DK001-42094	C767	6.8 10V OS	9DK001-40104
C552	0.1 25V Ceramic	9DK001-42094	C768	1 10V Ceramic	9DK001-42111
C553	0.1 25V Ceramic	9DK001-42094	C769	4.7 10V Ceramic	9DK001-42113
C554	10 16V EL	9DK001-40077	C776	6.8 10V OS	9DK001-40104
C555	0.1 25V Ceramic	9DK001-42094	C777	0.1 25V Ceramic	9DK001-42094
C556	0.1 25V Ceramic	9DK001-42094	C800	0.1 25V Ceramic	9DK001-42094
C557	0.1 25V Ceramic	9DK001-42094	C802	0.1 25V Ceramic	9DK001-42094
C558	0.1 25V Ceramic	9DK001-42094	C803	0.1 25V Ceramic	9DK001-42094
C559	10 10V Ceramic	9DK001-42131	C804	2.2 50V EL	9DK001-40103
	or 10 25V Ceramic	9DK001-42118	C805	2.2 50V EL	9DK001-40103
C562	0.1 25V Ceramic	9DK001-42094	C806	2.2 50V EL	9DK001-40103
C563	0.1 25V Ceramic	9DK001-42094	C807	2.2 50V EL	9DK001-40103
C564	33 6.3V OS	9DK001-40106	C808	2.2 50V EL	9DK001-40103
C565	0.1 25V Ceramic	9DK001-42094	C813	0.1 25V Ceramic	9DK001-42094
C566	330p 50V Ceramic	9DK001-42123	C814	0.1 25V Ceramic	9DK001-42094
C573	47 6.3V EL	9DK001-40089	C815	0.1 25V Ceramic	9DK001-42094
C574	47 6.3V EL	9DK001-40089	C816	0.1 25V Ceramic	9DK001-42094
C575	0.01 50V Ceramic	9DK001-42096	C817	0.1 25V Ceramic	9DK001-42094
C576	0.01 50V Ceramic	9DK001-42096	C818	0.1 25V Ceramic	9DK001-42094
C577	0.01 50V Ceramic	9DK001-42096	C819	0.1 25V Ceramic	9DK001-42094
C578	0.01 50V Ceramic	9DK001-42096	C820	0.1 25V Ceramic	9DK001-42094
C579	0.01 50V Ceramic	9DK001-42096	C821	0.1 25V Ceramic	9DK001-42094
C580	0.01 50V Ceramic	9DK001-42096	C822	0.1 25V Ceramic	9DK001-42094
C581	0.01 50V Ceramic	9DK001-42096	C823	0.1 25V Ceramic	9DK001-42094
C582	0.01 50V Ceramic	9DK001-42096	C824	0.1 25V Ceramic	9DK001-42094
C583	0.01 50V Ceramic	9DK001-42096	C825	0.1 25V Ceramic	9DK001-42094
C584	0.01 50V Ceramic	9DK001-42096	C826	0.1 25V Ceramic	9DK001-42094
C585	0.01 50V Ceramic	9DK001-42096	C827	0.1 25V Ceramic	9DK001-42094
C586	0.01 50V Ceramic	9DK001-42096	C828	0.1 25V Ceramic	9DK001-42094
C587	47 6.3V EL	9DK001-40089	C829	0.1 25V Ceramic	9DK001-42094
C588	47 6.3V EL	9DK001-40089	C830	0.1 25V Ceramic	9DK001-42094
C589	0.01 50V Ceramic	9DK001-42096	C831	0.1 25V Ceramic	9DK001-42094
C590	0.01 50V Ceramic	9DK001-42096	C832	0.1 25V Ceramic	9DK001-42094
C591	0.01 50V Ceramic	9DK001-42096	C833	0.1 25V Ceramic	9DK001-42094
C592	0.01 50V Ceramic	9DK001-42096	C834	0.1 25V Ceramic	9DK001-42094
C593	0.01 50V Ceramic	9DK001-42096	C835	0.1 25V Ceramic	9DK001-42094
C594	0.01 50V Ceramic	9DK001-42096	C836	0.1 25V Ceramic	9DK001-42094
C595	0.01 50V Ceramic	9DK001-42096	C837	0.1 25V Ceramic	9DK001-42094
C596	0.01 50V Ceramic	9DK001-42096	C838	0.1 25V Ceramic	9DK001-42094
C597	0.01 50V Ceramic	9DK001-42096	C839	0.1 25V Ceramic	9DK001-42094
C598	0.01 50V Ceramic	9DK001-42096	C840	0.1 25V Ceramic	9DK001-42094
C599	0.01 50V Ceramic	9DK001-42096	C841	0.1 25V Ceramic	9DK001-42094
C600	0.01 50V Ceramic	9DK001-42096	C842	0.1 25V Ceramic	9DK001-42094
C697	0.01 50V Ceramic	9DK001-42096	C843	0.1 25V Ceramic	9DK001-42094
C698	0.47 16V Ceramic	9DK001-42152	C844	0.1 25V Ceramic	9DK001-42094
C700	0.47 16V Ceramic	9DK001-42152	C845	0.1 25V Ceramic	9DK001-42094
C702	0.47 16V Ceramic	9DK001-42152	C846	0.1 25V Ceramic	9DK001-42094
C704	1 10V Ceramic	9DK001-42111	C847	100 6.3V EL	9DK001-40080
C705	0.1 16V Film	9DK001-42145	C848	0.1 25V Ceramic	9DK001-42094
C706	0.01 50V Ceramic	9DK001-42096	C849	100 6.3V EL	9DK001-40080
C715	0.01 50V Ceramic	9DK001-42096	C850	220 4V EL	9DK001-40092

Mark No.	Description	Part No.
C851	100 6.3V EL	9DK001-40080
C852	47 6.3V EL	9DK001-40089
C853	0.01 50V Ceramic	9DK001-42096
C854	47 16V EL	9DK001-40079
C855	82p 50V Ceramic	9DK001-42133
C856	0.1 25V Ceramic	9DK001-42094
C857	10 16V EL	9DK001-40077
C858	82p 50V Ceramic	9DK001-42133
C859	0.1 25V Ceramic	9DK001-42094
C860	10 16V EL	9DK001-40077
C863	82p 50V Ceramic	9DK001-42133
C864	82p 50V Ceramic	9DK001-42133
C865	82p 50V Ceramic	9DK001-42133
C867	10 16V EL	9DK001-40077
C868	0.1 25V Ceramic	9DK001-42094
C869	0.1 25V Ceramic	9DK001-42094
C870	82p 50V Ceramic	9DK001-42133
C872	0.1 25V Ceramic	9DK001-42094
C874	82p 50V Ceramic	9DK001-42133
C875	82p 50V Ceramic	9DK001-42133
C876	0.1 25V Ceramic	9DK001-42094
C878	0.1 25V Ceramic	9DK001-42094
C879	82p 50V Ceramic	9DK001-42133
C880	0.47 16V Ceramic	9DK001-42152
C881	0.1 25V Ceramic	9DK001-42094
C882	22 16V EL	9DK001-40078
C883	0.1 25V Ceramic	9DK001-42094
C884	0.1 25V Ceramic	9DK001-42094
C885	0.1 25V Ceramic	9DK001-42094
C886	0.47 16V Ceramic	9DK001-42152
C887	120p 50V Ceramic	9DK001-42151
C888	120p 50V Ceramic	9DK001-42151
C889	120p 50V Ceramic	9DK001-42151
C890	10 16V EL	9DK001-40077
C891	10 16V EL	9DK001-40077
C894	0.1 25V Ceramic	9DK001-42094
C895	0.1 25V Ceramic	9DK001-42094
C896	0.1 25V Ceramic	9DK001-42094
C897	0.1 25V Ceramic	9DK001-42094
C898	100p 50V Ceramic	9DK001-42099
C899	100p 50V Ceramic	9DK001-42099
C900	100p 50V Ceramic	9DK001-42099
C904	0.1 25V Ceramic	9DK001-42094
C905	0.1 25V Ceramic	9DK001-42094
C907	0.1 25V Ceramic	9DK001-42094
C908	0.01 50V Ceramic	9DK001-42096
C913	0.1 25V Ceramic	9DK001-42094
C916	0.1 25V Ceramic	9DK001-42094
C917	0.01 50V Ceramic	9DK001-42096
C918	0.01 50V Ceramic	9DK001-42096

RESISTOR

Mark No.	Description	Part No.
R10	10k 1/16W Resistor Array	9DK001-51030
R11	10k 1/16W Resistor Array	9DK001-51030
R16	1.69k 1/16W Chip1608	9DK001-50198
R17	33k 1/16W Chip1608	9DK001-50210
R18	2.15k 1/16W Chip1608	9DK001-50199
R19	10k 1/16W Resistor Array	9DK001-51030
R21	0 1/16W Chip1608	9DK001-50149
R22	10k 1/16W Chip1608	9DK001-50185
R27	27k 1/16W Chip1608	9DK001-50209
R29	10k 1/16W Resistor Array	9DK001-51030
R33	10k 1/16W Resistor Array	9DK001-51030
R34	10k 1/16W Resistor Array	9DK001-51030
R35	10k 1/16W Resistor Array	9DK001-51030
R36	10k 1/16W Resistor Array	9DK001-51030
R40	68 1/16W Chip1608	9DK001-50163
R43	10k 1/16W Resistor Array	9DK001-51030
R44	10k 1/16W Resistor Array	9DK001-51030
R50	10k 1/16W Resistor Array	9DK001-51030
R51	10k 1/16W Resistor Array	9DK001-51030
R57	10k 1/16W Resistor Array	9DK001-51030
R58	10k 1/16W Resistor Array	9DK001-51030
R62	10 1/16W Resistor Array	9DK001-51029
R65	10k 1/16W Resistor Array	9DK001-51030
R75	0 1/16W Chip1608	9DK001-50149
R80	270 1/10W Chip2125	9DK001-50103
R83	0 1/16W Chip1608	9DK001-50149
R88	270 1/10W Chip2125	9DK001-50103
R91	0 1/16W Chip1608	9DK001-50149
R96	270 1/10W Chip2125	9DK001-50103
R121	47 1/4W Chip3216	9DK001-50065
R122	47 1/4W Chip3216	9DK001-50065
R123	1.6k 1/16W Chip1608	9DK001-50256
R124	1.0k 1/16W Chip1608	9DK001-50237
R128	10 1/16W Chip1608	9DK001-50150
R132	3.3k 1/16W Chip1608	9DK001-50156
R133	3k 1/16W Chip1608	9DK001-50155
R138	0 1/16W Chip1608	9DK001-50149
R140	0 1/16W Chip1608	9DK001-50149
R289	4.7k 1/16W Chip1608	9DK001-50183
R340	10k 1/16W Chip1608	9DK001-50185
R650	10k 1/16W Chip1608	9DK001-50185
R651	6.8k 1/16W Resistor Array	9DK001-51037
R652	10k 1/16W Resistor Array	9DK001-51030
R654	150 1/16W Chip1608	9DK001-50204
R656	4.7k 1/16W Chip1608	9DK001-50183
R664	15k 1/16W Chip1608	9DK001-50259
R665	15k 1/16W Chip1608	9DK001-50259
R671	15k 1/16W Chip1608	9DK001-50259
R677	470 1/16W Chip1608	9DK001-50173
R678	1.2k 1/16W Chip1608	9DK001-50254
R680	3k 1/16W Chip1608	9DK001-50155
R681	3k 1/16W Chip1608	9DK001-50155
R682	1.2k 1/16W Chip1608	9DK001-50254
R687	470 1/16W Chip1608	9DK001-50173
R688	15 1/16W Chip1608	9DK001-50201
R689	470 1/16W Chip1608	9DK001-50173
R690	1.8k 1/16W Chip1608	9DK001-50205
R691	1.8k 1/16W Chip1608	9DK001-50205
R692	22 1/16W Chip1608	9DK001-50159
R693	22 1/16W Chip1608	9DK001-50159
R694	22 1/16W Chip1608	9DK001-50159
R695	22 1/16W Chip1608	9DK001-50159
R696	10k 1/16W Chip1608	9DK001-50185
R697	10k 1/16W Chip1608	9DK001-50185
R698	10k 1/16W Chip1608	9DK001-50185
R699	10k 1/16W Chip1608	9DK001-50185
R702	10k 1/16W Resistor Array	9DK001-51030
R708	10k 1/16W Resistor Array	9DK001-51030

Mark No.	Description	Part No.
R730	680 1/16W Chip1608	9DK001-50175
R731	620 1/16W Chip1608	9DK001-50271
R733	10k 1/16W Chip1608	9DK001-50185
R734	10k 1/16W Chip1608	9DK001-50185
R735	10k 1/16W Chip1608	9DK001-50185
R736	10k 1/16W Chip1608	9DK001-50185
R737	10k 1/16W Chip1608	9DK001-50185
R738	10k 1/16W Chip1608	9DK001-50185
R739	10k 1/16W Chip1608	9DK001-50185
R740	10k 1/16W Chip1608	9DK001-50185
R742	0 1/16W Chip1608	9DK001-50149
R743	1.8k 1/16W Chip1608	9DK001-50205
R745	0 1/16W Chip1608	9DK001-50149
R747	0 1/16W Chip1608	9DK001-50149
R749	0 1/16W Chip1608	9DK001-50149
R757	0 1/16W Chip1608	9DK001-50149
R758	0 1/16W Chip1608	9DK001-50149
R758	10k 1/16W Chip1608	9DK001-50185
R759	1k 1/16W Chip1608	9DK001-50177
R760	1k 1/16W Chip1608	9DK001-50177
R763	0 1/16W Chip1608	9DK001-50149
R764	0 1/16W Chip1608	9DK001-50149
R765	0 1/16W Chip1608	9DK001-50149
R867	510 1/16W Chip1608	9DK001-50217
R868	510 1/16W Chip1608	9DK001-50217
R869	510 1/16W Chip1608	9DK001-50217
R876	0 1/16W Chip1608	9DK001-50149
R877	10k 1/16W Chip1608	9DK001-50185
R879	0 1/16W Chip1608	9DK001-50149
R881	0 1/16W Chip1608	9DK001-50149
R883	0 1/16W Chip1608	9DK001-50149
R885	0 1/16W Chip1608	9DK001-50149
R887	0 1/16W Chip1608	9DK001-50149
R901	0 1/4W Chip3216	9DK001-50113
R911	10 1/10W Chip2125	9DK001-50121
R912	10 1/10W Chip2125	9DK001-50121
R920	100 1/16W Chip1608	9DK001-50165
R921	100 1/16W Chip1608	9DK001-50165
R922	10k 1/16W Chip1608	9DK001-50185
R924	4.7k 1/16W Chip1608	9DK001-50183
R925	4.7k 1/16W Chip1608	9DK001-50183
R926	0 1/16W Chip1608	9DK001-50149
R927	100 1/16W Chip1608	9DK001-50165
R928	100 1/16W Chip1608	9DK001-50165
R929	100 1/16W Chip1608	9DK001-50165
R930	100 1/16W Chip1608	9DK001-50165
R934	68 1/16W Resistor Array	9DK001-51040
R936	68 1/16W Resistor Array	9DK001-51040
R937	68 1/16W Resistor Array	9DK001-51040
R939	68 1/16W Resistor Array	9DK001-51040
R940	68 1/16W Resistor Array	9DK001-51040
R941	68 1/16W Resistor Array	9DK001-51040
R947	56 1/16W Resistor Array	9DK001-51039
R951	6.8k 1/16W Resistor Array	9DK001-51037
R959	68 1/16W Resistor Array	9DK001-51040
R960	68 1/16W Resistor Array	9DK001-51040
R961	68 1/16W Resistor Array	9DK001-51040
R962	68 1/16W Resistor Array	9DK001-51040
R963	68 1/16W Resistor Array	9DK001-51040
R964	68 1/16W Resistor Array	9DK001-51040

Mark No.	Description	Part No.
R965	68 1/16W Resistor Array	9DK001-51040
R966	68 1/16W Resistor Array	9DK001-51040
R967	68 1/16W Resistor Array	9DK001-51040
R968	68 1/16W Resistor Array	9DK001-51040
R969	68 1/16W Resistor Array	9DK001-51040
R970	68 1/16W Resistor Array	9DK001-51040
R971	33 1/16W Resistor Array	9DK001-51042
R972	33 1/16W Resistor Array	9DK001-51042
R973	33 1/16W Resistor Array	9DK001-51042
R974	33 1/16W Resistor Array	9DK001-51042
R975	33 1/16W Resistor Array	9DK001-51042
R976	33 1/16W Resistor Array	9DK001-51042
R977	10k 1/16W Chip1608	9DK001-50185
R978	68 1/16W Chip1608	9DK001-50163
R979	0 1/16W Chip1608	9DK001-50149
R980	0 1/16W Chip1608	9DK001-50149
R993	0 1/16W Chip1608	9DK001-50149
R998	0 1/16W Chip1608	9DK001-50149
R999	510 1/16W Chip1608	9DK001-50217
R1000	4.7k 1/16W Chip1608	9DK001-50183
R1001	4.7k 1/16W Chip1608	9DK001-50183
R1002	100 1/16W Chip1608	9DK001-50165
R1003	100 1/16W Chip1608	9DK001-50165
R1004	1k 1/16W Chip1608	9DK001-50177
R1005	1k 1/16W Chip1608	9DK001-50177
R1006	2.2k 1/16W Chip1608	9DK001-50179
R1007	1k 1/16W Chip1608	9DK001-50177
R1008	1k 1/16W Chip1608	9DK001-50177
R1009	2.2k 1/16W Chip1608	9DK001-50179
R1011	33k 1/16W Chip1608	9DK001-50210
R1012	1k 1/16W Chip1608	9DK001-50177
R1013	47 1/16W Chip1608	9DK001-50161
R1015	47 1/16W Chip1608	9DK001-50161
R1017	47 1/16W Chip1608	9DK001-50161
R1019	2.2k 1/16W Chip1608	9DK001-50179
R1022	3.3k 1/16W Chip1608	9DK001-50181
R1023	3.3k 1/16W Chip1608	9DK001-50181
R1024	3.3k 1/16W Chip1608	9DK001-50181
R1025	0 1/16W Chip1608	9DK001-50149
R1026	220 1/16W Chip1608	9DK001-50169
R1027	220 1/16W Chip1608	9DK001-50169
R1028	220 1/16W Chip1608	9DK001-50169
R1029	1M 1/16W Chip1608	9DK001-50190
R1030	1k 1/16W Chip1608	9DK001-50177
R1031	22k 1/16W Chip1608	9DK001-50186
R1032	100k 1/16W Chip1608	9DK001-50212
R1033	1k 1/16W Chip1608	9DK001-50177
R1034	1k 1/16W Chip1608	9DK001-50177
R1035	100k 1/16W Chip1608	9DK001-50212
R1036	1k 1/16W Chip1608	9DK001-50177
R1037	22k 1/16W Chip1608	9DK001-50186
R1038	100k 1/16W Chip1608	9DK001-50212
R1042	1k 1/16W Chip1608	9DK001-50177
R1043	1k 1/16W Chip1608	9DK001-50177
R1044	1k 1/16W Chip1608	9DK001-50177
R1045	560 1/16W Chip1608	9DK001-50174
R1048	47 1/16W Chip1608	9DK001-50161
R1049	47 1/16W Chip1608	9DK001-50161
R1050	47 1/16W Chip1608	9DK001-50161
R1051	4.7k 1/16W Chip1608	9DK001-50183

Mark No.	Description	Part No.
R1052	4.7k 1/16W Chip1608	9DK001-50183
R1053	4.7k 1/16W Chip1608	9DK001-50183
R1054	4.7k 1/16W Chip1608	9DK001-50183
R1055	4.7k 1/16W Chip1608	9DK001-50183
R1056	4.7k 1/16W Chip1608	9DK001-50183
R1058	4.7k 1/16W Chip1608	9DK001-50183
R1059	4.7k 1/16W Chip1608	9DK001-50183
R1060	4.7k 1/16W Chip1608	9DK001-50183
R1061	4.7k 1/16W Chip1608	9DK001-50183
R1062	4.7k 1/16W Chip1608	9DK001-50183
R1077	6.8k 1/16W Chip1608	9DK001-50207
R1079	56 1/16W Resistor Array	9DK001-51039
R1082	22 1/16W Chip1608	9DK001-50159
R1083	1k 1/16W Chip1608	9DK001-50177
R1084	10k 1/16W Chip1608	9DK001-50185
R1085	6.8k 1/16W Chip1608	9DK001-50207
R1089	100 1/16W Chip1608	9DK001-50165
R1099	0 1/16W Chip1608	9DK001-50149
R1101	56 1/16W Resistor Array	9DK001-51039
R1102	56 1/16W Resistor Array	9DK001-51039
R1104	100 1/16W Chip1608	9DK001-50165
R1105	10k 1/16W Chip1608	9DK001-50185
R1107	1k 1/16W Chip1608	9DK001-50177
R1108	16k 1/16W Chip1608	9DK001-50214
R1110	4.7k 1/16W Chip1608	9DK001-50183
R1120	0 1/16W Chip1608	9DK001-50149
R1121	0 1/16W Chip1608	9DK001-50149
R1122	0 1/16W Chip1608	9DK001-50149
R1123	0 1/16W Chip1608	9DK001-50149
R1124	0 1/16W Chip1608	9DK001-50149
R1125	0 1/16W Chip1608	9DK001-50149
R1126	10 1/4W Chip3216	9DK001-50088
R1127	10k 1/16W Chip1608	9DK001-50185
R1128	47 1/16W Chip1608	9DK001-50161
FB15	0 1/10W Chip2125	9DK001-50110
FB18	0 1/10W Chip2125	9DK001-50110
FB19	0 1/10W Chip2125	9DK001-50110
FL1	0 1/10W Chip2125	9DK001-50110
FL98	33 1/10W Chip2125	9DK001-50080
FL99	0 1/10W Chip2125	9DK001-50110
FL102	0 1/10W Chip2125	9DK001-50110
FL110	0 1/10W Chip2125	9DK001-50110

SWITCH

S1	Switch Slide	9DK001-70012

MISCELLANEOUS PARTS

FB50	Ferrite Bead Chip2125	9DK001-81060
FB51	Ferrite Bead Chip2125	9DK001-81060
FB52	Ferrite Bead Chip2125	9DK001-81060
FB53	Ferrite Bead Chip2125	9DK001-81060
CN1	Connector, 15-pin	9DK001-60074
CN3	Connector, 29-pin	9DK001-60053
CN5	Connector, JEY-9P-1A3F	9DK001-60066
CN6	Connector, 30-pin	9DK001-60067
CN7	Connector, 50-pin	9DK001-60058
CN8	Connector, 12-pin	9DK001-60070
CN9	Connector, 13-pin	9DK001-60071

G POWER UNIT

Mark No.	Description	Part No.
IC		
IC701	NJM2375AD	VHiNJM2375AD1
IC702	TNY264P	VHiTNY264P/-1
IC703	TA76431	VHiTA76431S15
TRANSISTOR		
Q701	2SK2662	VS2SK2662//-1
Q702	2SC1741AS	VS2SC1741AS-1
Q703	2SK2700	VS2SK2700//-1
Q704	2SC1741AS	VS2SC1741AS-1
Q705	DTD113ZS	VSDTD113ZS/-1
Q706	DTC124ESA	VSDTC124ESA-1
Q707	DTA124XSA	VSDTA124XSA-1
Q708	DTC124ESA	VSDTC124ESA-1
Q709	DTA114ESA	VSDTA114ESA-1
DIODE		
D701	Diode	VHDD3SB60//-1
D702	Diode	VHD5JL2CZ47-1
D703	Diode	VHD1SS270ATE1
D704	Diode	VHD1SS270ATE1
D705	Zener Diode	VHEHZS18-3/-1
D706	Diode	VHD1SS270ATE1
D707	Diode	VHD05NH45//-1
D708	Diode	VHD05NH45//-1
D709	Diode	VHDAG01////-1
D710	Diode	VHDFMB26L//-1
D711	Zener Diode	VHEHZS12A3/-1
D713	Diode	VHDRK39LFC3-1
D714	1SS270A	VHD1SS270ATE1
D715	Zener Diode	VHEHZS3CLL/-1
D716	Zener Diode	VHEHZS6C2//-1
D717	Diode	VHD1SS270ATE1
PACKAGED CIRCUIT		
⚠ PC701	Photo Coupler PC123FY	VHPPC123FY2-
⚠ PC702	Photo Coupler PC123FY	VHPPC123FY2-
⚠ PC703	Photo Coupler PC123FY	VHPPC123FY2-
⚠ PC704	Photo Coupler PC123FY	VHPPC123FY2-
FILTER AND COIL		
L703	Coil	RCiLC1239SNEZY
L704	Coil	RCiLC1249SNEZ
L705	Coil	RCiLC1250SNEZ
TRANSFORMER		
⚠ T701	Transformer	RTRNP1219SNE
⚠ T702	Transformer	RTRNP1220SNE
TH701	Power Thermistor	VHS8D2-10LD-1
TH702	Power Thermistor	VHS8D2-10LD-1
CAPACITOR		
⚠ C704	0.01 275V Film	RC-M2E103RES
⚠ C705	1000p 250V Ceramic	RCDE0910R102
C706	0.82 400V Film	RC-M2G824MDSC
C707	220p 2kV Ceramic	RCDE0707R221S
C708	56 450V EL.	RC-E2W566KMMZ
C709	0.01 50V Ceramic	RCDD350BC103K
C710	100 35V EL.	RC-E1V107SNPW
C711	0.47 12V Ceramic	RC-DD312F474Z
C713	220p 2kV Ceramic	RCDE0707R221S
C714	220p 2kV Ceramic	RCDE0707R221S
C715	0.1 16V Ceramic	RCDD407SR104K
C716	0.1 16V Ceramic	RCDD407SR104K

Mark	No.	Description	Part No.
	C717	4700p 50V Ceramic	RCDD107-B472K
	C718	0.01 50V Ceramic	RCDD350BC103K
	C719	22 400V EL.	RC-E2G226KMXZ
	C720	100p 2kV Ceramic	RCDE0705SL101
	C721	0.1 16V Ceramic	RCDD407SR104K
	C722	22 50V EL.	RC-E1H226SNPJ
	C723	470 25V EL.	RC-E1E477SNPW
	C724	470 25V EL.	RC-E1E477SNPW
	C725	470 25V EL.	RC-E1E477SNPW
	C726	0.1 16V Ceramic	RCDD407SR104K
	C727	470 25V EL.	RC-E1E477SNPW
	C728	220 10V EL.	RC-E1A227SNPW
	C729	220 10V EL.	RC-E1A227SNPW
	C730	0.1 16V Ceramic	RCDD407SR104K
	C731	0.047 50V Ceramic	RCDD407SR473K
	C732	1 50V EL.	RC-E1H105SNPR
	C733	2200p 50V Ceramic	RCDD106-B222K

RESISTOR

	R702	1M 1/4W Carbon	VRD-HT2EY105J
	R703	1M 1/4W Carbon	VRD-HT2EY105J
	R704	22k 1/4W Carbon	VRD-HT2EY223J
	R705	10 1/4W Carbon	VRD-HT2EY100J
	R706	0.15 2W M-Ox.	RR-HRNMR15J2C
	R707	820k 1/4W Carbon	VRD-HT2EY824J
	R708	750k 1/4W Carbon	VRD-HT2EY754J
	R709	0 1/4W Carbon	VRD-HT2EY000J
	R710	15k 1/4W Carbon	VRD-HT2EY153J
	R711	560 1/4W Carbon	VRD-HT2EY561J
	R712	1k 1/4W Carbon	VRD-HT2EY102J
	R713	10k 1/4W Carbon	VRD-HT2EY103J
	R714	100 2W M-Ox.	VRS-RE3DA101J
	R715	270k 1/2W Carbon	VRD-HT2HY274J
	R716	270k 1/2W Carbon	VRD-HT2HY274J
	R717	18k 1/4W Carbon	VRD-HT2EY183J
	R718	5.6k 1/4W Carbon	VRD-HT2EY562J
	R719	3 3W M-Ox.	RR-HRSM3R0J3C
	R720	1.5k 1/4W Carbon	VRD-HT2EY152J
	R721	220 1/2W Carbon	VRD-HT2HY221J
	R722	68 1/4W Carbon	VRD-HT2EY680J
	R723	100 1/4W Carbon	VRD-HT2EY101J
	R724	470 1/4W Carbon	VRD-HT2EY471J
	R725	1k 1/4W Carbon	VRD-HT2EY102J
	R726	1.2k 1/4W Carbon	VRD-HT2EY122J
	R727	1.5k 1/2W Carbon	VRD-HT2HY152J
	R728	10 1/4W Carbon	VRD-HT2EY100J
	R729	100 1/4W Carbon	VRD-HT2EY101J
	R730	220 1/4W Carbon	VRD-HT2EY221J
	R731	1k 1/4W Carbon	VRD-HT2EY102J
	R732	10k 1/4W Carbon	VRD-HT2EY103J
	R733	3.6k 1/4W Carbon	VRNHT2EK3601F
	R734	150 1/4W Carbon	VRNHT2EK1500F
	R735	1k 1/4W Carbon	VRNHT2EK1001F
	R736	1k 1/4W Carbon	VRD-HT2EY102J
	R737	2.2k 1/4W Carbon	VRD-HT2EY222J
	R738	2.2k 1/4W Carbon	VRD-HT2EY222J
	R739	5.6k 1/4W Carbon	VRD-HT2EY562J
	R740	51k 1/4W Carbon	VRD-HT2EY513J

SWITCH

⚠	SW701	Switch	QSW-P0591CEZ

Mark	No.	Description	Part No.

MISCELLANEOUS PARTS

	FB701	Ferrite Bead	RCORF1011SNEZ
	FB702	Ferrite Bead	RCORF1011SNEZ
⚠	RL701	Relay	RRLYD1010SNE
⚠	F702	Fuse T2A 250V TR-5	QFS-A1129SNE
	CN702	Connector, 3-pin	QCNCM1003SNEZ
	CN703	Connector, 12-pin	QCNCM1766SNEZ
		Heat Sink	PRDAF1085SNEZ
		Heat Sink	PRDAF1073SNEZ

H EMC UNIT

DIODE

⚠	VA701	Varistor	VHVNV470D10-

FILTER

⚠	L701	Filter	RCiLZ1230SNE
⚠	L702	Filter	RCiLZ1230SNE

CAPACITOR

⚠	C701	0.22 275V Film	RC-M2E224RES
⚠	C702	1000p 250V Ceramic	RCDE0910R102
⚠	C703	1000p 250V Ceramic	RCDE0910R102
⚠	C735	0.22 275V Film	RC-M2E224RES

RESISTOR

	R701	390k 1/2W Carbon	VRD-HT2HY394J
	R741	5.6M 1/2W Carbon(PDP-R03U)	RR-RCR50+565J
	R742	5.6M 1/2W Carbon(PDP-R03U)	RR-RCR50+565J

MISCELLANEOUS PARTS

⚠	F701	Fuse T2A 250V TR-5	QFS-A1129SNE
⚠	CN701	Socket, 3-pin	QSOCA1012SNE
	CNW701	Connecting Cord (NF)	QCNW-1765SNEZ
	CNW702	Connecting Cord (Earth)	QCNW-1769SNEZ

6. ADJUSTMENT

■ Procedure for turning ON the power

1. Connecting the system

(1) Using the system cable, interconnect the plasma display and the AVC system.
(2) Connect the plasma display to the AC power source.
(3) Connect the AVC System to the AC power source.

2. Procedure for turning ON the power

(1) Turn ON the AC power switch located on the plasma display.
The power indicator on the plasma display will start blinking in red.
(When the AC power switch on the AVC System is not ON, the power indicator on the plasma display always blinks in red.)
(2) Turn ON the power switch located on the AVC System.
The power indicator on the AVC System will be illuminated in green. Simultaneously, the power indicator on the plasma display will change from blinking in red to illumination in green. Now the system has started up.
(3) If the power indicators on the AVC System and on the plasma display are both illuminated in red, press the power key located on the remote controller and the power button located on the plasma display. The power indicators on the plasma display and on the AVC System will change from red to green. Now the system has started up.

■ Procedure for upgrading the AVC System software

(1) With the power being OFF, open the top cabinet of the AVC System and then set the slide switch from the NORMAL position to the WRITE position by inserting an insulated stick into the cutout located between the WHITE port on the rear of the shield case for the PC I/F unit and the RS-232C port. (Or the software may be upgraded by calling the process adjustment mode and using CENTER PROG UPDATE on the process adjustment menu screen. This is discussed later.)
(2) Connect a program-installed PC to the AVC system using the RS-232C cross cable. (For the details of the program, see Appendix.)
(3) Open the MS-DOS window on the PC and then go to the directory in which the software is installed.
(4) Start up the system to which the AVC System and plasma display have been connected.
(5) Run “vup.bat (tentative name)” at the MS-DOS prompt. The software will be upgraded.
(6) Load the file “civic_XXXXa.bhx main.bhx osd.bhx (tentative name)”.
It will take a couple of minutes until the file has been loaded. Never turn OFF the power or operate the system during this rewriting period.
(7) After the file has been loaded, turn OFF the plasma display and the AVC System, and then return the slide switch in the above step (1) back from the WRITE position to the NORMAL position. Now the software has been upgraded.

■ Procedure for adjusting each part of the AVC System

1. The adjustments were made to the best settings at factory. If any setting deviates or if any readjustment is regarded as necessary when any part has been replaced, perform the following steps.
2. Any parameter that has been changed in the process adjustment mode is stored on the memory. If any readjustment is required, write down the current value before changing it.
3. Use a stable AC power source.
4. If the program is upgraded, it will take approximately 1 minute for the EEPROM to be initialized before any video appears. Therefore, you will need to wait for this time period. Do not turn OFF the power or operate the system during the period.
5. If the program is rewritten, preferably write down the parameters that have been changed within the process adjustment (see “OSD menu and parameters displayed at manual adjustment”), initialize the EEPROM, and then reenter the recorded values.

■ Entering a special mode

1. Entering the process adjustment mode

With the system being ON, turn OFF the main power of the plasma display. Next holding down the INPUT SELECT and CH UP buttons on the plasma display itself, turn ON the main power again. Now the adjustment mode screen shows up.

2. Adjustments in the adjustment process mode

[Steps]
Make adjustments using the process adjustment mode buttons, listed below.
[Description]
Following the items displayed on the process adjustment menu screen, adjust the settings given in their adjustment tables.

3. Procedure for making factory settings

[Steps]
In the process adjustment mode, move the cursor to the line “INDUSTRY INIT” onscreen. Turn ON with the VOL key and press the SET/ENTER key.
(Within the adjustment process, the channel settings remain unchanged. Once you exit the process adjustment mode, the channel settings entered in the delivery adjustment mode become valid.)
[Description]
The user’s adjustment parameters and others will be set to the default values. Keep in mind that the channel settings will also be initialized.

■ Exiting the process adjustment mode

To exit the process adjustment mode, turn off the AVC System power.

■ OSD menu and parameters displayed at manual adjustment

- The default values may slightly differ depending upon the program version to be rewritten.
- The settings are not initialized to the default values by merely rewriting the program. (See the paragraph for Procedure for adjusting each part of the AVC System.)

(1) Descriptions of special buttons in process adjustment mode
(All on the remote controller)

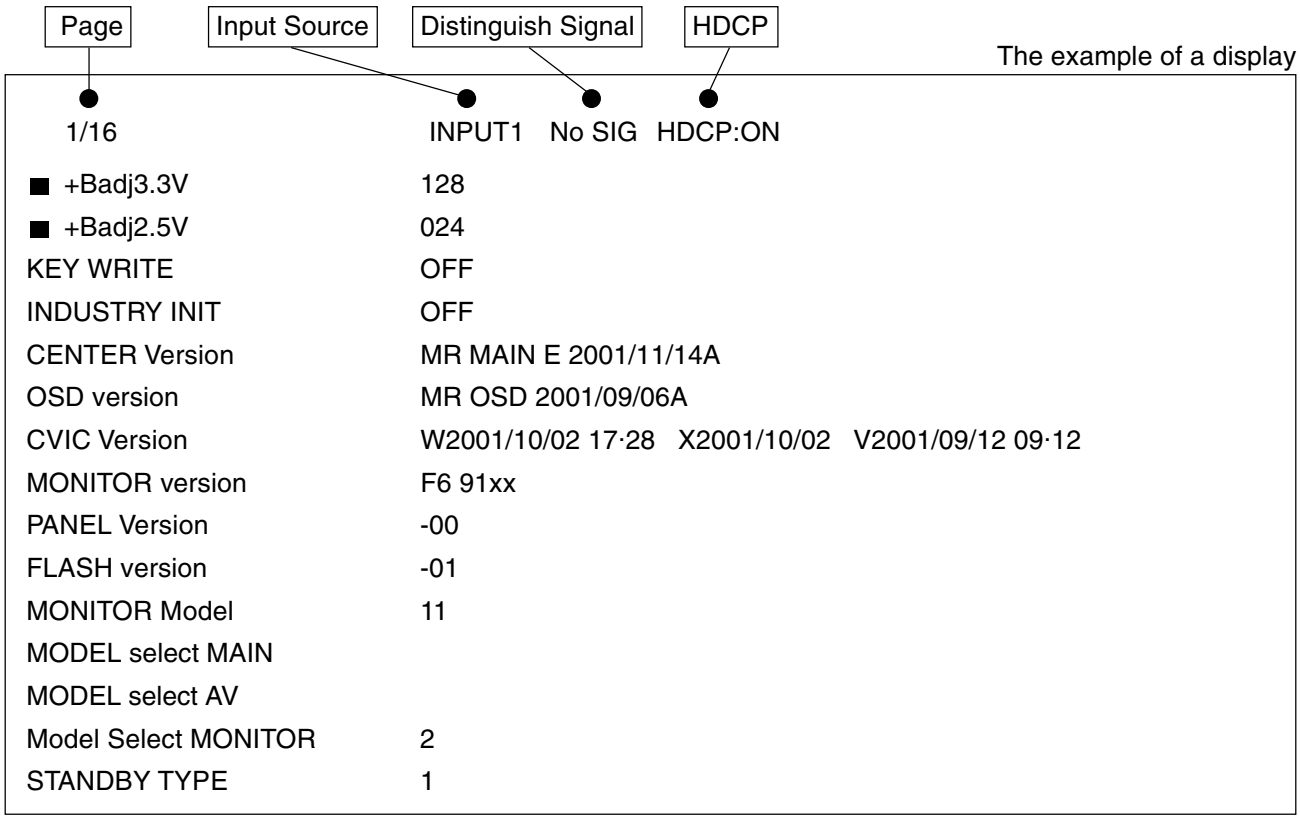
Cursor UP key	: Returns to the previous page.
Cursor DOWN key	: Proceeds to the next page.
Vol UP key	: Increases the adjusted value by 1.
Vol DOWN key	: Decreases the adjusted value by 1.
Cursor RIGHT key	: Increases the adjusted value by 10.
Cursor LEFT key	: Decreases the adjusted value by 10.
CH UP key	: Moves up the cursor.
CH DOWN key	: Moves down the cursor.

(2) Process adjustment menu table
The items displayed on the menu screen must be written down before replacing the EEPROM at the AVC System side.

■ Procedure for replacing the PC I/F unit

Before replacing the PC I/F unit, write down the items displayed on each menu screen of the adjustment process. If the I/F unit is completely broken and the above items cannot be jotted down in advance, follow the instructions in “Adjustment procedures and items” and make all adjustments.

(2) Organization of process adjustment screen



Parameter display	Setting range	Description
■ +B Adj3.3V	0 ~ 255	3.3 V adjustment
■ +B Adj2.5V	0 ~ 255	2.2 V adjustment
■ SUB N358 Y	0 ~ 63	Sub N358 Y level adiustment
■ SUB N358 COLOR GAIN	0 ~ 63	Sub N358 color gain adjustment
■ SUB N358 TINT	0 ~ 63	Sub N358 tint adjustment
■ N358 Y CONTRAST	0 ~ 63	Main N358 Y contrast adjustment
■ N358 COLOR GAIN	0 ~ 63	Main N358 color gain adjustment
■ MAIN CR GAIN N358	0 ~ 255	Main N358 Cr level adjustment
■ N358 TINT	0 ~ 63	Main N358 Tint adjustment
■ MAIN CONTRAST 15K	0 ~ 63	Main Contrast adjustment (15k)
■ MAIN SUB BRIGHT 15K	0 ~ 15	Main sub bright adjustment (15k)
■ COMP 15K Y CONTRAST	0 ~ 63	COMP 15k Y level adjustment
■ COMP 15K COLOR GAIN	0 ~ 63	COMP 15k Color gain adjustment
■ MAIN CR GAIN COMP 15K	0 ~ 255	COMP 15k Cr level adjustment
■ COMP HDTV CONTRAST	0 ~ 63	COMP HDTV contrast level adjustment
■ COMP HDTV SUB BRIGHT	0 ~ 63	COMP HDTV black level adjustment
■ PEAK ACL SW	OFF/ON	

The values for the above parameters should be written down before the EEPROM is replaced on the AVC System.

■ Procedures before and after replacing the PC I/F unit

1) Before replacing the PC I/F unit, write down the values for the parameters listed on the 2nd and 3rd pages of the Adjustment Process A screen.
If the values for the parameters cannot be written down because the PC I/F unit is completely broken or for any other reason, make all the adjustments in accordance with the paragraph for Adjustment procedure and parameters, rather than the following procedures. (End)
Set the parameters listed on the 2nd and 3rd pages of the Adjustment Process A screen to the values you have written down.

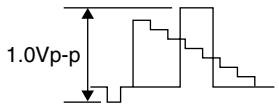
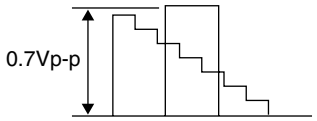
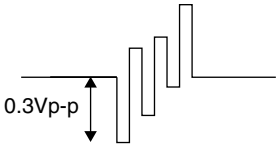
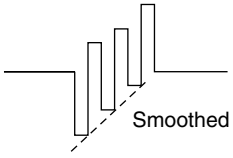
■ Adjustment parameters

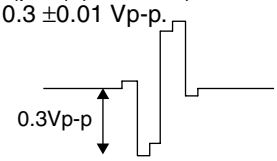
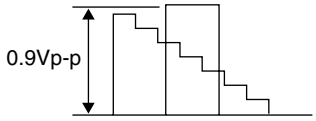
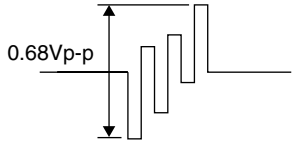
1) Analog adjustment

(1) Prior adjustment for AVC system chassis

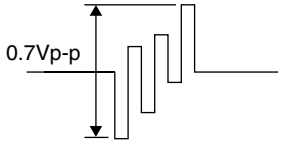
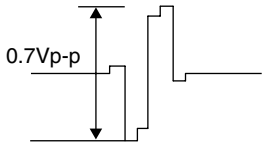
	Adjustment item	Description	Adjustment procedure
1	Process adjustment mode		Call the process adjustment mode.
2	AVC center 3.3V adjustment	Connect DC voltmeter to TP1702.	Adjust output voltage of DC/DC 3.3 V line to 3.25 ±0.01 V.
3	AVC center 2.5V adjustment	Connect DC voltmeter to TP1701.	Adjust output voltage of DC/DC 2.5 V line to 2.6 ±0.01 V.

(2) N358 signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Receive the SPLIT FIELD color bar signal. white 100%, 75% color bar, modulation
2	Tuner level adjustment	• MAIN side • SUB side	1. Adjust the V-LEVEL (R1121) control so that the tuner output (TP1101) on the AV PWB (DUNTKA616) should be 1.0 ±0.02 Vp-p. 2. Adjust the V-LEVEL (R1219) control so that the tuner output (TP1201) on the AV PWB (DUNTKA616) should be 1.0 ±0.02 Vp-p. 
3	MAIN N358 Y CONTRAST adjustment		1. Adjust TB1274_MAIN output (pin (1) of P801) to 0.7 ±0.01 Vp-p. 
4	MAIN N358 COLOR GAIN adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the level shown below should be 0.3 ±0.01 Vp-p. 
5	MAIN N358 TINT adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the waveform should become as shown below. 

	Adjustment item	Description	Adjustment procedure
6	MAIN N358 Cr level adjustment		1. Adjust TB1274_MAIN output (pin (5) of P801) so that the level shown below should be 0.3 ±0.01 Vp-p. 
7	MAIN N358 CONTRAST adjustment	Peak ACL: OFF Check DC Tran 01	1. Turn off the PEAK ACL control. Adjust the output (TP815) of IC810 to have 1.1 Vp-p from the pedestal level. Adjusted value: 1.1 ±0.02 V
		Press the TWIN PICTURE key.	1. Select the special TWIN PICTURE settings for adjustment (so that the same video source is reflected on MAIN/SUB).
8	SUB N358 Y LEVEL adjustment		1. Adjust TB1274_SUB output (TP806) to 0.9 ±0.02 Vp-p. 
9	SUB N358 COLOR GAIN adjustment		1. Adjust TB1274_SUB output (TP805) so that the level shown below should be 0.68 ±0.01 Vp-p. 

(3) Component 15 kHz signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Select the component 15 kHz source (100% white color bar signal).
2	COMPONENT 15 kHz Y level adjustment		1. Adjust TB1274_MAIN output (pin (1) of P801) to 0.7 ±0.01 Vp-p.
3	COMPONENT 15 kHz COLOR GAIN adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the level shown below should be 0.7 ±0.01 Vp-p. 
4	COMPONENT 15 kHz Cr level adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the level shown below should be 0.7 ±0.01 Vp-p. 

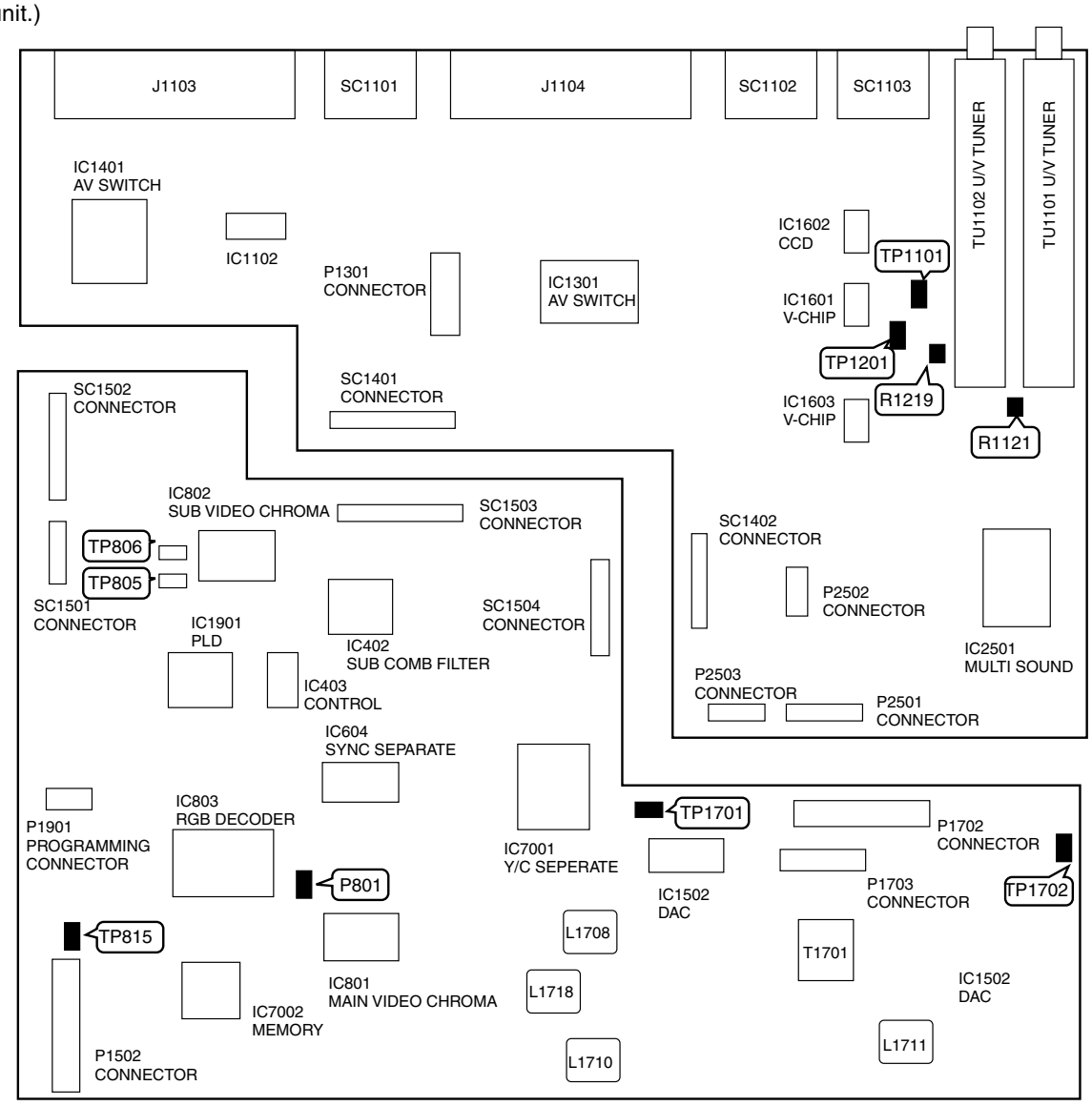
(4) Component HDTV signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Select the component HDTV source (100% white color bar signal).
2	COMPONENT HDTV CONTRAST adjustment	Peak ACL: OFF	1. Turn off the PEAK ACL control. Adjust the output (TP815) of IC810 to have 1.1 ±0.02 Vp-p from the pedestal level.

2. Factory settings

	Adjustment item	Description	Adjustment procedure
1	INDUSTRY INIT		Check the PEAK ACL is "ON" and DC Tran is "00". Press the Delivery Setup key on the remote controller. Or position the cursor on the INDUSTRY INIT line, set the line to ON with the VOL key, and then press the ENTER key. The adjustment is finished when the line turns OFF.

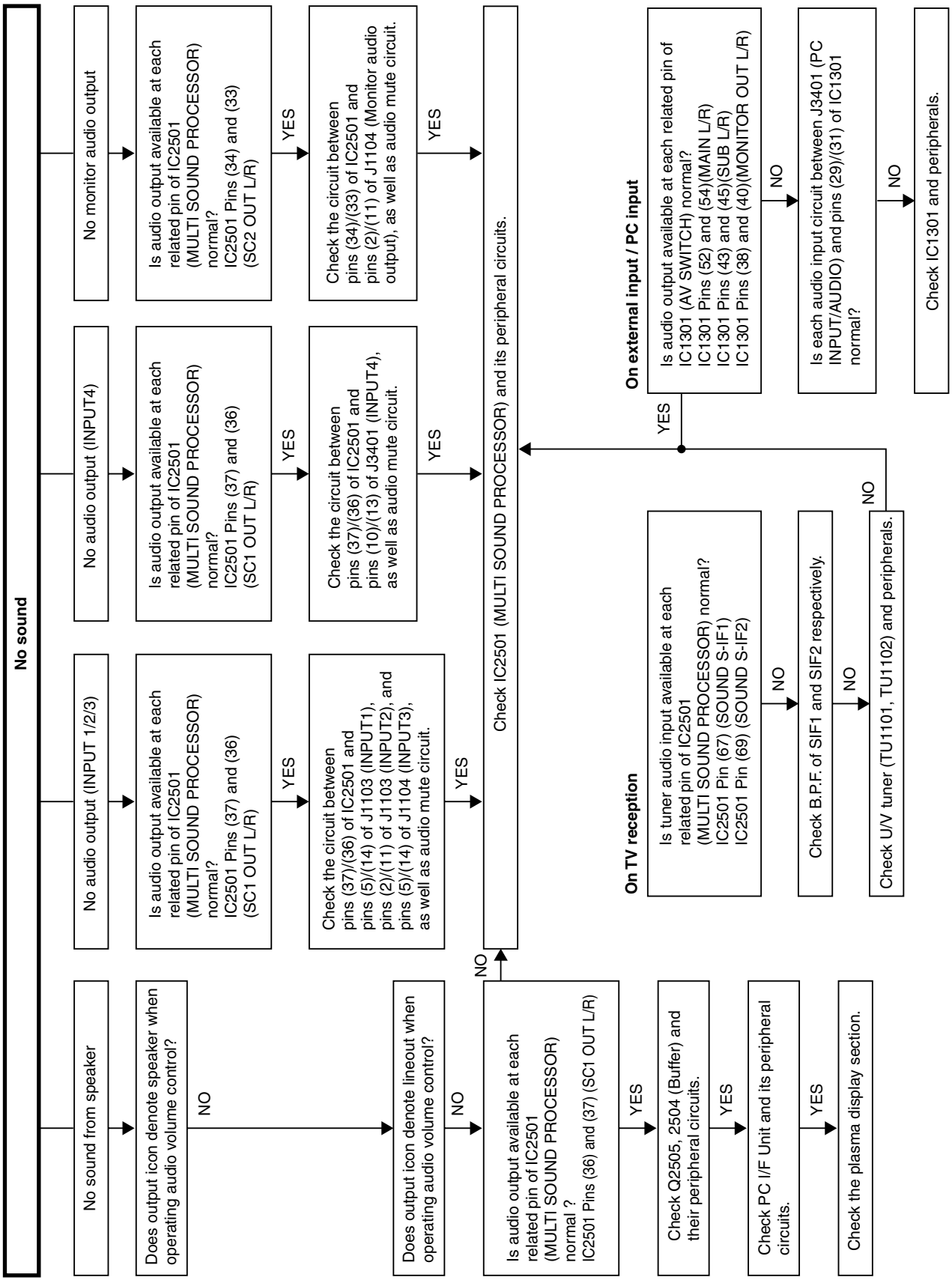
Then turn off the AC power supply of the AVC System. (Be careful not to use the power switches of the remote controller and panel unit.)

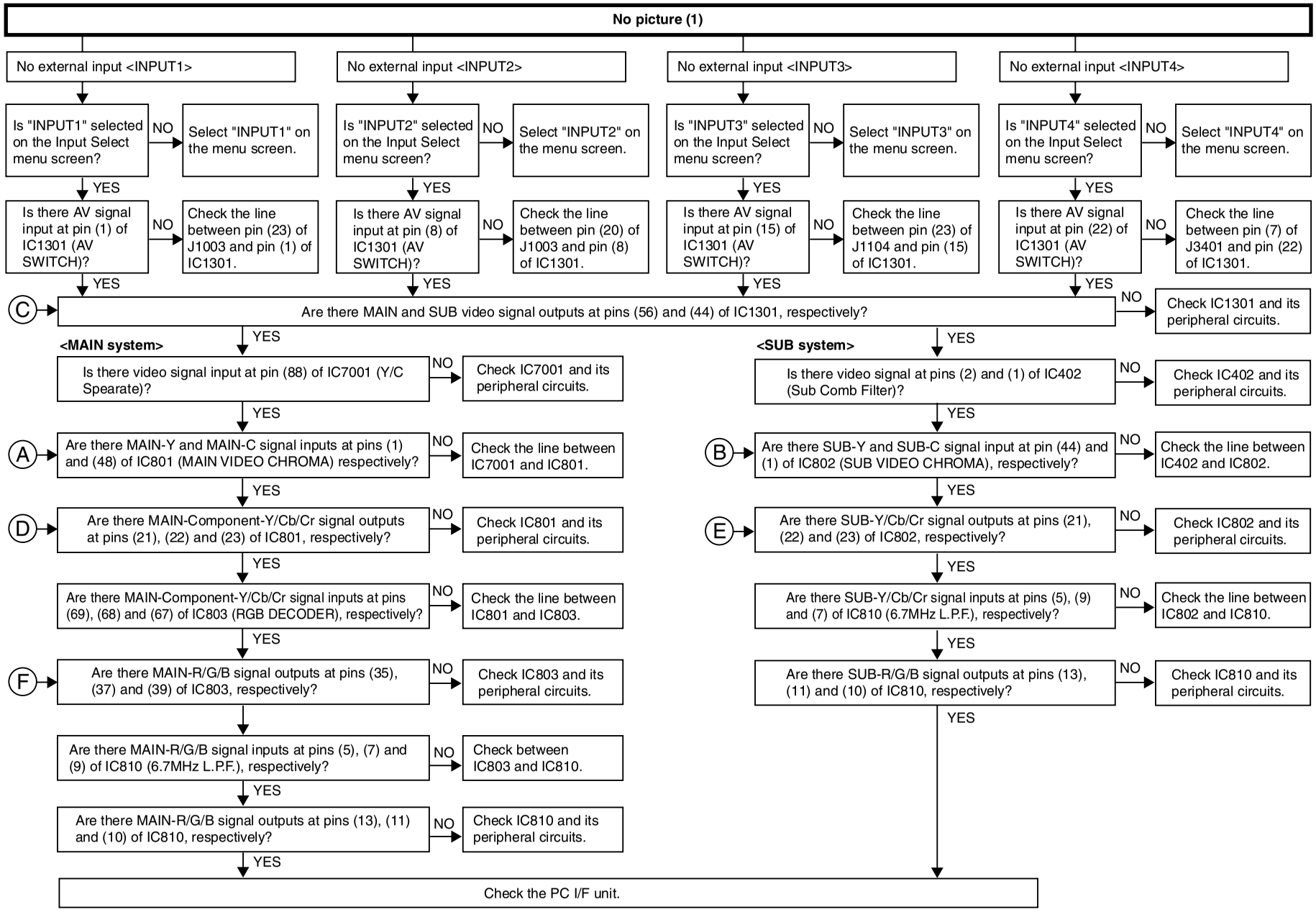


7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TROUBLE SHOOTING


No sound
No sound from speaker
Does output icon denote speaker when operating audio volume control?
NO
Does output icon denote lineout when operating audio volume control?
NO
Is audio output available at each related pin of IC2501 (MULTI SOUND PROCESSOR) normal ? IC2501 Pins (36) and (37) (SC1 OUT L/R)
YES
Check Q2505, 2504 (Buffer) and their peripheral circuits.
YES
Check PC I/F Unit and its peripheral circuits.
YES
Check the plasma display section.
NO
Check IC2501 (MULTI SOUND PROCESSOR) and its peripheral circuits.
No audio output (INPUT 1/2/3)
Is audio output available at each related pin of IC2501 (MULTI SOUND PROCESSOR) normal? IC2501 Pins (37) and (36) (SC1 OUT L/R)
YES
Check the circuit between pins (37)/(36) of IC2501 and pins (5)/(14) of J1103 (INPUT1), pins (2)/(11) of J1103 (INPUT2), and pins (5)/(14) of J1104 (INPUT3), as well as audio mute circuit.
YES
No audio output (INPUT4)
Is audio output available at each related pin of IC2501 (MULTI SOUND PROCESSOR) normal? IC2501 Pins (37) and (36) (SC1 OUT L/R)
YES
Check the circuit between pins (37)/(36) of IC2501 and pins (10)/(13) of J3401 (INPUT4), as well as audio mute circuit.
YES
No monitor audio output
Is audio output available at each related pin of IC2501 (MULTI SOUND PROCESSOR) normal? IC2501 Pins (34) and (33) (SC2 OUT L/R)
YES
Check the circuit between pins (34)/(33) of IC2501 and pins (2)/(11) of J1104 (Monitor audio output), as well as audio mute circuit.
YES
On TV reception
Is tuner audio input available at each related pin of IC2501 (MULTI SOUND PROCESSOR) normal? IC2501 Pin (67) (SOUND S-IF1) IC2501 Pin (69) (SOUND S-IF2)
NO
Check B.P.F. of SIF1 and SIF2 respectively.
NO
Check U/V tuner (TU1101, TU1102) and peripherals.
NO
On external input / PC input
Is audio output available at each related pin of IC1301 (AV SWITCH) normal? IC1301 Pins (52) and (54)(MAIN L/R) IC1301 Pins (43) and (45)(SUB L/R) IC1301 Pins (38) and (40)(MONITOR OUT L/R)
YES
NO
Is each audio input circuit between J3401 (PC INPUT/AUDIO) and pins (29)/(31) of IC1301 normal?
NO
Check IC1301 and peripherals.

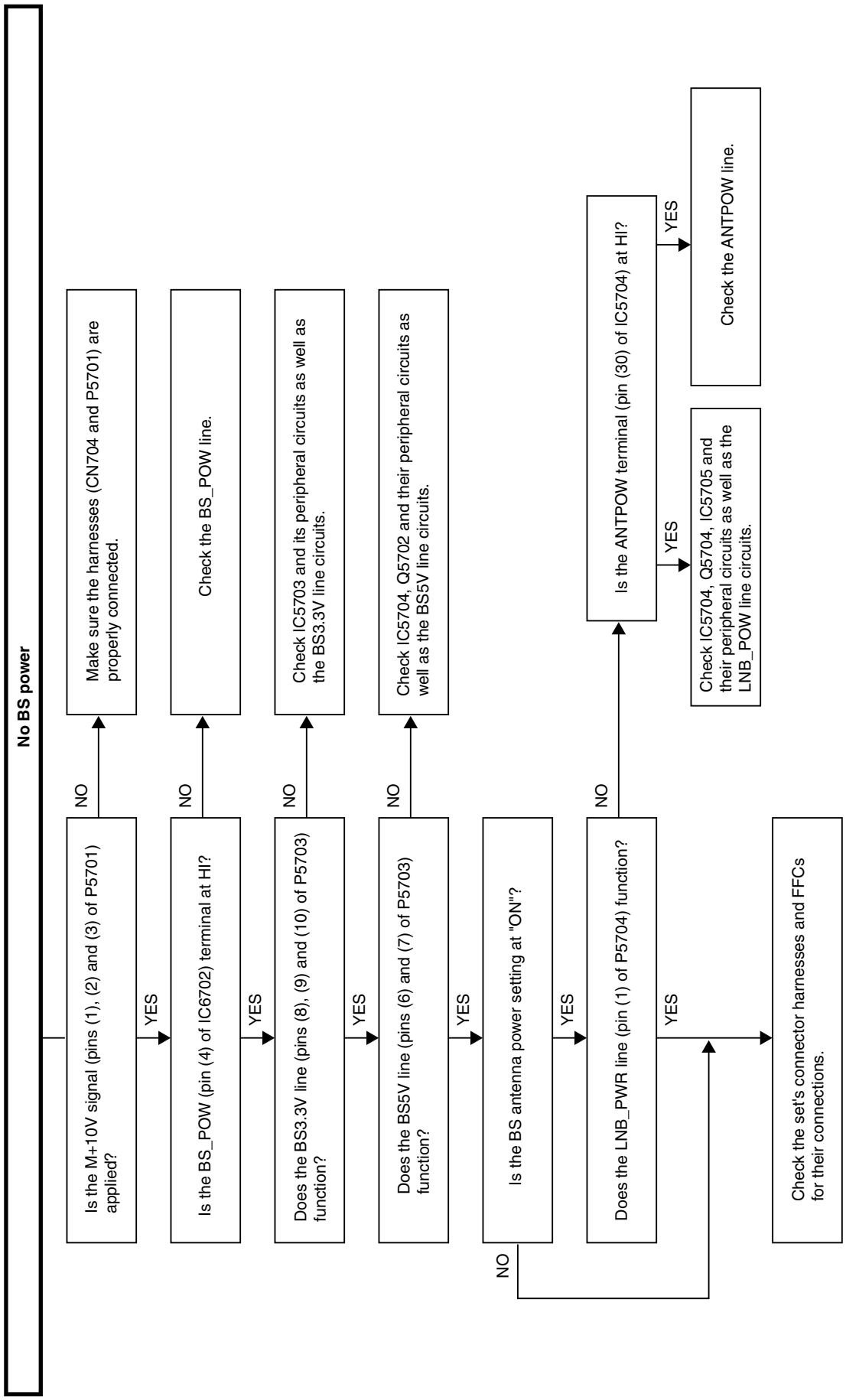

No picture (1)
No external input <INPUT1>
Is "INPUT1" selected on the Input Select menu screen?
NO
Select "INPUT1" on the menu screen.
YES
Is there AV signal input at pin (1) of IC1301 (AV SWITCH)?
NO
Check the line between pin (23) of J1003 and pin (1) of IC1301.
YES
No external input <INPUT2>
Is "INPUT2" selected on the Input Select menu screen?
NO
Select "INPUT2" on the menu screen.
YES
Is there AV signal input at pin (8) of IC1301 (AV SWITCH)?
NO
Check the line between pin (20) of J1003 and pin (8) of IC1301.
YES
No external input <INPUT3>
Is "INPUT3" selected on the Input Select menu screen?
NO
Select "INPUT3" on the menu screen.
YES
Is there AV signal input at pin (15) of IC1301 (AV SWITCH)?
NO
Check the line between pin (23) of J1104 and pin (15) of IC1301.
YES
No external input <INPUT4>
Is "INPUT4" selected on the Input Select menu screen?
NO
Select "INPUT4" on the menu screen.
YES
Is there AV signal input at pin (22) of IC1301 (AV SWITCH)?
NO
Check the line between pin (7) of J3401 and pin (22) of IC1301.
YES
C
Are there MAIN and SUB video signal outputs at pins (56) and (44) of IC1301, respectively?
NO
Check IC1301 and its peripheral circuits.
YES
<MAIN system>
Is there video signal input at pin (88) of IC7001 (Y/C Spearate)?
NO
Check IC7001 and its peripheral circuits.
YES
A
Are there MAIN-Y and MAIN-C signal inputs at pins (1) and (48) of IC801 (MAIN VIDEO CHROMA) respectively?
NO
Check the line between IC7001 and IC801.
YES
D
Are there MAIN-Component-Y/Cb/Cr signal outputs at pins (21), (22) and (23) of IC801, respectively?
NO
Check IC801 and its peripheral circuits.
YES
Are there MAIN-Component-Y/Cb/Cr signal inputs at pins (69), (68) and (67) of IC803 (RGB DECODER), respectively?
NO
Check the line between IC801 and IC803.
YES
F
Are there MAIN-R/G/B signal outputs at pins (35), (37) and (39) of IC803, respectively?
NO
Check IC803 and its peripheral circuits.
Are there MAIN-R/G/B signal inputs at pins (5), (7) and (9) of IC810 (6.7MHz L.P.F.), respectively?
NO
Check between IC803 and IC810.
YES
Are there MAIN-R/G/B signal outputs at pins (13), (11) and (10) of IC810, respectively?
NO
Check IC810 and its peripheral circuits.
YES
<SUB system>
Is there video signal at pins (2) and (1) of IC402 (Sub Comb Filter)?
NO
Check IC402 and its peripheral circuits.
YES
B
Are there SUB-Y and SUB-C signal input at pin (44) and (1) of IC802 (SUB VIDEO CHROMA), respectively?
NO
Check the line between IC402 and IC802.
YES
E
Are there SUB-Y/Cb/Cr signal outputs at pins (21), (22) and (23) of IC802, respectively?
NO
Check IC802 and its peripheral circuits.
YES
Are there SUB-Y/Cb/Cr signal inputs at pins (5), (9) and (7) of IC810 (6.7MHz L.P.F.), respectively?
NO
Check the line between IC802 and IC810.
YES
Are there SUB-R/G/B signal outputs at pins (13), (11) and (10) of IC810, respectively?
NO
Check IC810 and its peripheral circuits.
YES
Check the PC I/F unit.

Power switch on, but no power
(Front LED indicator does not change from red to green, but remains in red.)

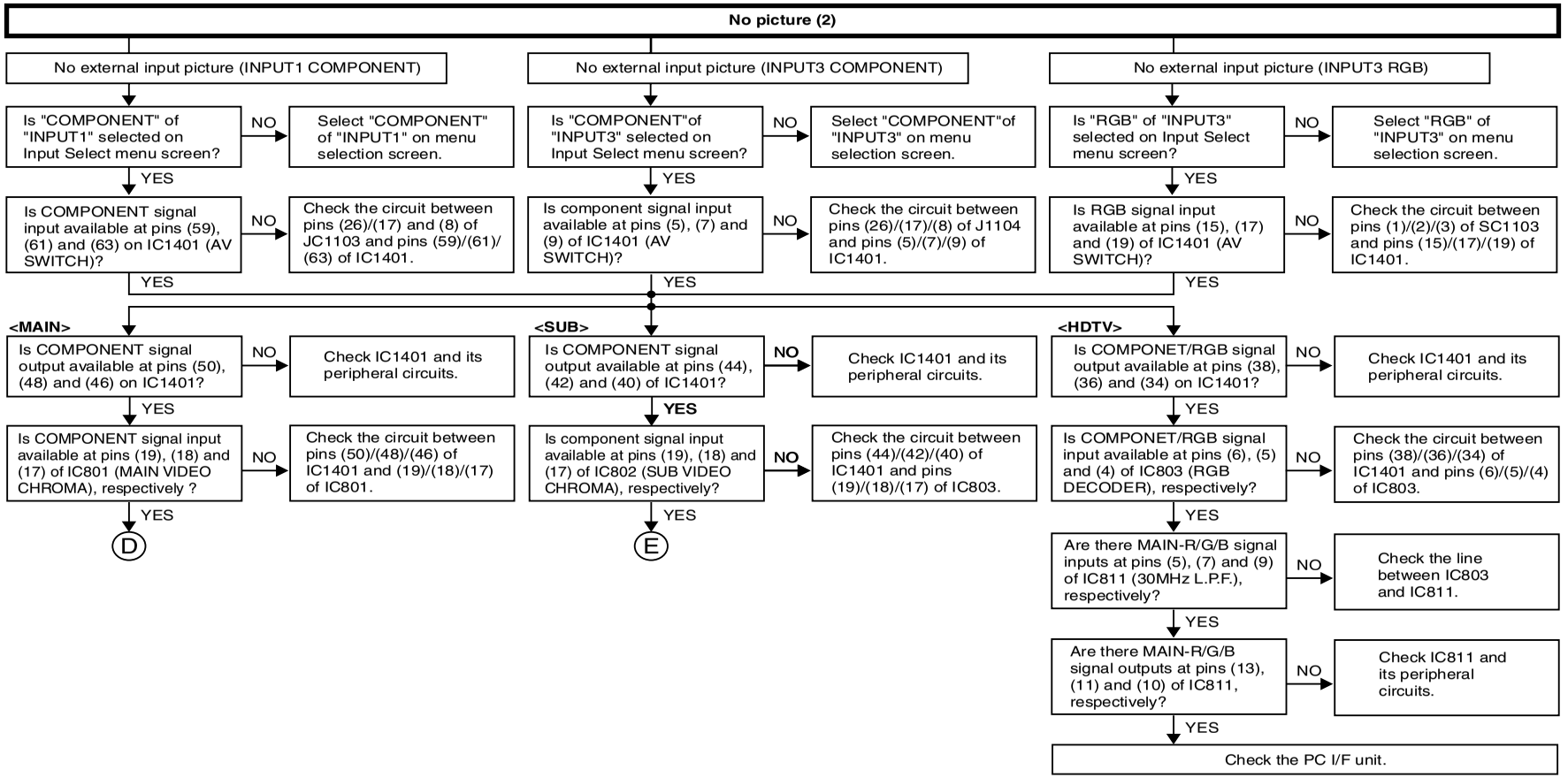
- Are the MDR and DVI cable connectors (white and gray) properly connected with the PDP and the set as well?
  - NO → Reinsert the connectors, and turn on the power again.
  - YES ↓
- Is the PDP's power switch on?
  - NO → Turn on the PDP's power switch.
  - YES ↓
- Is the M+10V line as specified?
  - NO → Is the PS_ON terminal (pin (1) of CN703) at HI (3.5V)?
    - NO → Check the PS_ON line.
    - YES → Is the impedance of the M+10V line as specified? (Measure the resistance between F1702 and GND.)
      - NO → Check the M+10V line as well as its circuit parts.
      - YES → Are there voltage fluctuations along the OVP line (pin (12) of P1502)?
        - NO → Check the internal parts of the power unit (Q703, Q704, Q708, Q709, D717, D710 and D711).
        - YES → Are the D_POW and B+2.5V_POW settings (pins (30), (32), (33) and (34) of IC1701) at HI?
          - NO → Chekc the D_POW and B+2.5V_POW lines (pins (6) and (7) of IC1503).
          - YES → Are the DC/DC converter output lines and MOS-FET (Q1712, Q1716, Q1726 and Q1718) as specified?
            - NO → Check the DC/DC converter output lines and replace the MOS-FET (Q1712, Q1716, Q1726 and Q1718).
            - YES → Replace IC1701.
  - YES ↓
- Do the +5V line (pin (10) of P1703), +2.5V line (pins (5) and (6) of P1702), and +3.3V line (pin (8) of P1702) all function?
  - NO → Are the D_POW and B+2.5V_POW settings (pins (30), (32), (33) and (34) of IC1701) at HI?
  - YES → Check the set's wire harnesses, FFCs and other parts for their connections.

Power-on failure (Front LED indicator stays off.)

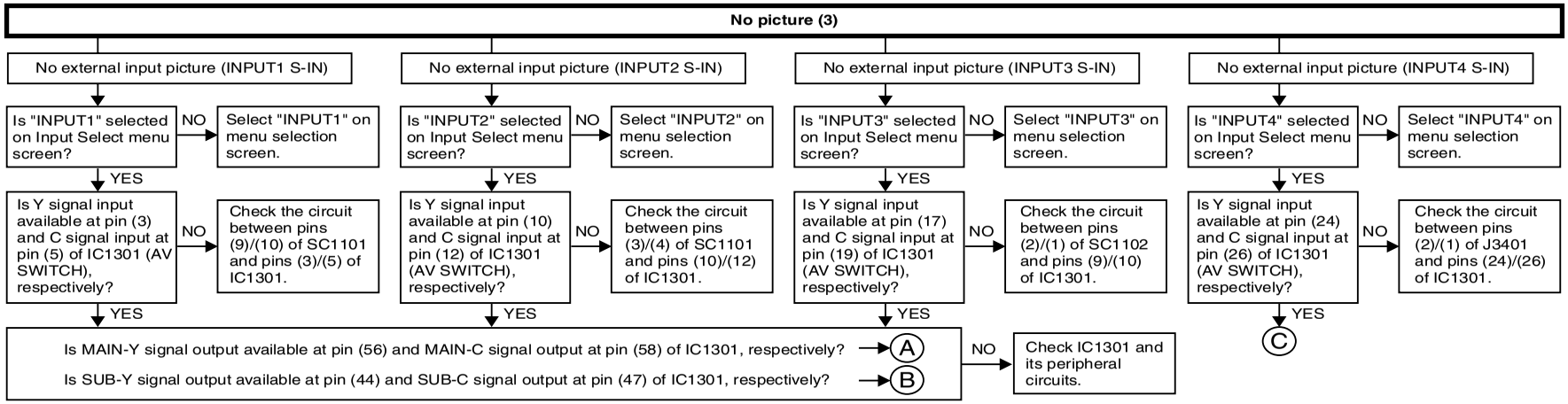
- Is the power cable connector properly connected with the set?
  - NO → Reinsert the power cable connector and turn on the power again.
  - YES ↓
- Are F701 and F702 intact in place?
  - NO → Replace F701 or F702 and turn on the power again. If the fuse blows out again, replace VA701, Q701, Q703 and IC702 and check the performance again.
  - YES ↓
- Does the BACK5V line function?
  - NO → Check the BACK5V line. Is there any defective part or short-circuit?
    - YES → Repair the defective part or short-circuit. Check the performance again.
    - NO → Check IC701, T702, PC703 and their peripheral circuits.
  - YES → Check the set's wire harnesses, FFCs and other parts for their connections.


No BS power
Is the M+10V signal (pins (1), (2) and (3) of P5701) applied?
NO
Make sure the harnesses (CN704 and P5701) are properly connected.
YES
Is the BS_POW (pin (4) of IC6702) terminal at HI?
NO
Check the BS_POW line.
YES
Does the BS3.3V line (pins (8), (9) and (10) of P5703) function?
NO
Check IC5703 and its peripheral circuits as well as the BS3.3V line circuits.
YES
Does the BS5V line (pins (6) and (7) of P5703) function?
NO
Check IC5704, Q5702 and their peripheral circuits as well as the BS5V line circuits.
YES
Is the BS antenna power setting at "ON"?
NO
YES
Does the LNB_PWR line (pin (1) of P5704) function?
NO
Is the ANTPOW terminal (pin (30) of IC5704) at HI?
YES
Check the ANTPOW line.
YES
Check IC5704, Q5704, IC5705 and their peripheral circuits as well as the LNB_POW line circuits.
Check the set's connector harnesses and FFCs for their connections.

No picture (2)


No external input picture (INPUT1 COMPONENT)
Is "COMPONENT" of "INPUT1" selected on Input Select menu screen?
NO
Select "COMPONENT" of "INPUT1" on menu selection screen.
YES
Is COMPONENT signal input available at pins (59), (61) and (63) on IC1401 (AV SWITCH)?
NO
Check the circuit between pins (26)/(17) and (8) of JC1103 and pins (59)/(61)/(63) of IC1401.
YES
No external input picture (INPUT3 COMPONENT)
Is "COMPONENT"of "INPUT3" selected on Input Select menu screen?
NO
Select "COMPONENT"of "INPUT3" on menu selection screen.
YES
Is component signal input available at pins (5), (7) and (9) of IC1401 (AV SWITCH)?
NO
Check the circuit between pins (26)/(17)/(8) of J1104 and pins (5)/(7)/(9) of IC1401.
YES
No external input picture (INPUT3 RGB)
Is "RGB" of "INPUT3" selected on Input Select menu screen?
NO
Select "RGB" of "INPUT3" on menu selection screen.
YES
Is RGB signal input available at pins (15), (17) and (19) of IC1401 (AV SWITCH)?
NO
Check the circuit between pins (1)/(2)/(3) of SC1103 and pins (15)/(17)/(19) of IC1401.
YES
<MAIN>
Is COMPONENT signal output available at pins (50), (48) and (46) on IC1401?
NO
Check IC1401 and its peripheral circuits.
YES
Is COMPONENT signal input available at pins (19), (18) and (17) of IC801 (MAIN VIDEO CHROMA), respectively ?
NO
Check the circuit between pins (50)/(48)/(46) of IC1401 and (19)/(18)/(17) of IC801.
YES
D
<SUB>
Is COMPONENT signal output available at pins (44), (42) and (40) of IC1401?
NO
Check IC1401 and its peripheral circuits.
YES
Is component signal input available at pins (19), (18) and (17) of IC802 (SUB VIDEO CHROMA), respectively?
NO
Check the circuit between pins (44)/(42)/(40) of IC1401 and pins (19)/(18)/(17) of IC803.
YES
E
<HDTV>
Is COMPONET/RGB signal output available at pins (38), (36) and (34) on IC1401?
NO
Check IC1401 and its peripheral circuits.
YES
Is COMPONET/RGB signal input available at pins (6), (5) and (4) of IC803 (RGB DECODER), respectively?
NO
Check the circuit between pins (38)/(36)/(34) of IC1401 and pins (6)/(5)/(4) of IC803.
YES
Are there MAIN-R/G/B signal inputs at pins (5), (7) and (9) of IC811 (30MHz L.P.F.), respectively?
NO
Check the line between IC803 and IC811.
YES
Are there MAIN-R/G/B signal outputs at pins (13), (11) and (10) of IC811, respectively?
NO
Check IC811 and its peripheral circuits.
YES
Check the PC I/F unit.

No picture (3)


No external input picture (INPUT1 S-IN)
Is "INPUT1" selected on Input Select menu screen?
NO
Select "INPUT1" on menu selection screen.
YES
Is Y signal input available at pin (3) and C signal input at pin (5) of IC1301 (AV SWITCH), respectively?
NO
Check the circuit between pins (9)/(10) of SC1101 and pins (3)/(5) of IC1301.
YES
No external input picture (INPUT2 S-IN)
Is "INPUT2" selected on Input Select menu screen?
NO
Select "INPUT2" on menu selection screen.
YES
Is Y signal input available at pin (10) and C signal input at pin (12) of IC1301 (AV SWITCH), respectively?
NO
Check the circuit between pins (3)/(4) of SC1101 and pins (10)/(12) of IC1301.
YES
No external input picture (INPUT3 S-IN)
Is "INPUT3" selected on Input Select menu screen?
NO
Select "INPUT3" on menu selection screen.
YES
Is Y signal input available at pin (17) and C signal input at pin (19) of IC1301 (AV SWITCH), respectively?
NO
Check the circuit between pins (2)/(1) of SC1102 and pins (9)/(10) of IC1301.
YES
No external input picture (INPUT4 S-IN)
Is "INPUT4" selected on Input Select menu screen?
NO
Select "INPUT4" on menu selection screen.
YES
Is Y signal input available at pin (24) and C signal input at pin (26) of IC1301 (AV SWITCH), respectively?
NO
Check the circuit between pins (2)/(1) of J3401 and pins (24)/(26) of IC1301.
YES
C
Is MAIN-Y signal output available at pin (56) and MAIN-C signal output at pin (58) of IC1301, respectively?
A
Is SUB-Y signal output available at pin (44) and SUB-C signal output at pin (47) of IC1301, respectively?
B
NO
Check IC1301 and its peripheral circuits.

No picture (4)

- No monitor picture (AV-OUT)
  - Is video signal output available at pin (41) of IC1301 (AV SWITCH)?
    - NO → Check IC1301 and its peripheral circuits.
    - YES → Check the circuit between pin (41) of IC1301 and pin (20) of J1104.
- No monitor picture (S-OUT)
  - Is Y signal output available at pin (39) and C signal output at pin (37) of IC1301 (AV SWITCH), respectively?
    - NO → Confirm input signal is S-INPUT.
      - YES → Check IC1301 and its peripheral circuits.
    - YES → Check the circuit between pins (39)/(37) of IC1301 and pins (3)/(4) of SC1102.

No picture (5)

- No TV picture
  - YES
  - Is video output available at pin (19) of TU1101 and TU1102 (U/V tuner)?
    - NO → Check U/V tuner and its peripheral circuits.
    - YES
    - Is video input signal available at pins (63) and (60) of IC1301?
      - NO → Check the circuit between pin (19) of TUNER and pins (63)/(60) of IC1301.
      - YES → (C)

Synchronization failure

MAIN

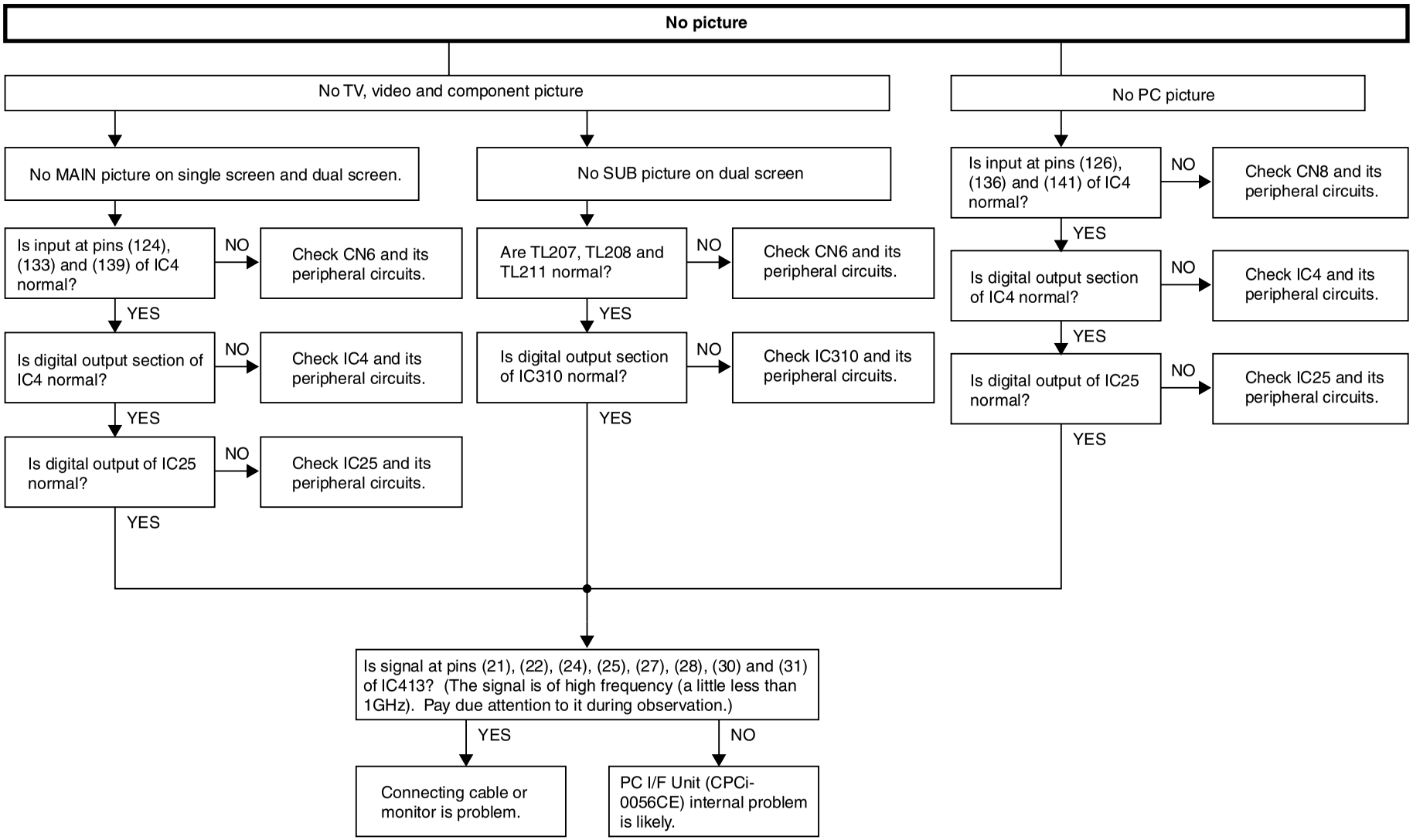
- Is VDM/HDM output available at pins (28) and (29) of IC803 (RGB DECODER)?
  - NO → Check IC803 and its peripheral circuits.
  - YES
- Is HI/VI IN input available at pins (66) and (65) of IC803?
  - NO → Check the circuit between pins (35)/(34) of IC1901 and pins (66)/(65) of IC803.
  - YES
- Is PL-HD/VD output available at pins (34) and (35) of IC1901 (PLD)?
  - NO → Check IC1901 and its peripheral circuits.
  - YES
- Is HD1/VD1 input available at pins (44) and (2) of IC1901?
  - NO → Check the circuit between pins (4)/(9) of IC801 and pins (2)/(44) of IC1901.
  - YES
- Is HD1/VD1 output available at pins (9) and (4) of IC801 (MAIN VIDEO CHROMA)?
  - NO → Check IC801 and its peripheral circuits.

SUB

- Is HDS/VDS output available at pins (21) and (22) on IC1901 (PLD)?
  - NO → Check IC1901 and its peripheral circuits.
  - YES
- Is VD2/HD2 input available at pins (20) and (19) of IC1901?
  - NO → Check the circuit between pins (4)/(9) of IC802 and pins (20)/(19) of IC1901.
  - YES
- Is HD2/VDM2 output available at pins (9) and (4) of IC802 (SUB VIDEO CHROMA)?
  - NO → Check IC802 and its peripheral circuits.

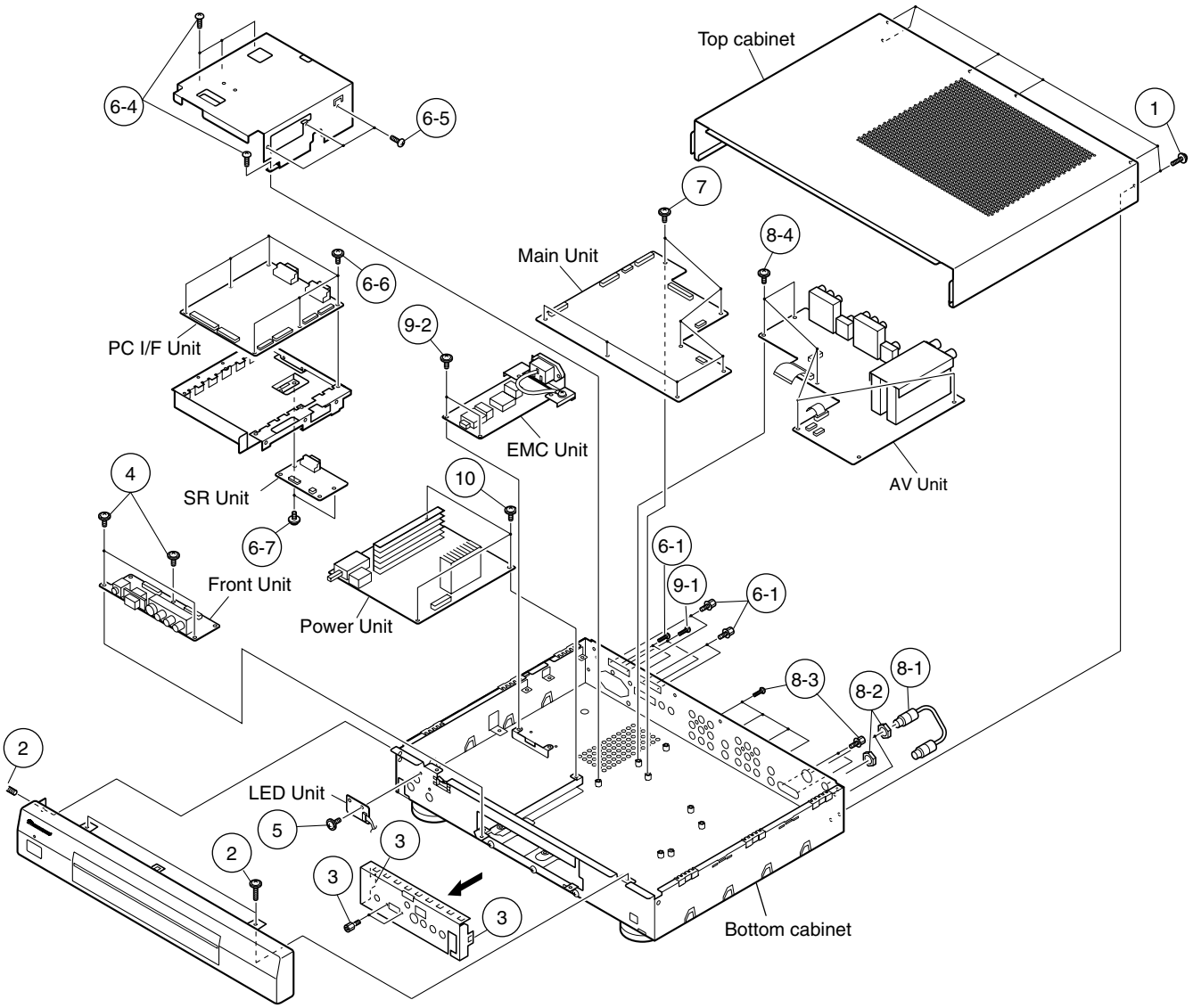
HDTV

- Is SP-VD/HD input available at pins (5) and (40) of IC1901?
  - NO → Check the circuit between pins (28)/(16) of IC604 and pins (5)/(40) of IC1901.
  - YES
- Is SP-HD/VD output available at pins (16) and (28) of IC604 (SYNC SEP)?
  - NO → Check IC604 and its peripheral circuits.


No picture
No TV, video and component picture
No PC picture
No MAIN picture on single screen and dual screen.
No SUB picture on dual screen
Is input at pins (124), (133) and (139) of IC4 normal?
NO
Check CN6 and its peripheral circuits.
YES
Is digital output section of IC4 normal?
NO
Check IC4 and its peripheral circuits.
YES
Is digital output of IC25 normal?
NO
Check IC25 and its peripheral circuits.
YES
Are TL207, TL208 and TL211 normal?
NO
Check CN6 and its peripheral circuits.
YES
Is digital output section of IC310 normal?
NO
Check IC310 and its peripheral circuits.
YES
Is input at pins (126), (136) and (141) of IC4 normal?
NO
Check CN8 and its peripheral circuits.
YES
Is digital output section of IC4 normal?
NO
Check IC4 and its peripheral circuits.
YES
Is digital output of IC25 normal?
NO
Check IC25 and its peripheral circuits.
YES
Is signal at pins (21), (22), (24), (25), (27), (28), (30) and (31) of IC413? (The signal is of high frequency (a little less than 1GHz). Pay due attention to it during observation.)
YES
NO
Connecting cable or monitor is problem.
PC I/F Unit (CPCi-0056CE) internal problem is likely.

7.1.2 DISASSEMBLY

1. Remove the six lock screws from the back of the top cabinet. Slide the top cabinet backward and detach it.
2. Remove the three lock screws from the front panel. Undo the three hooks at the top and the four hooks at the bottom, and detach the front panel.
3. Remove the two hexagonal shafts from the front shield. Undo the four hooks on both sides and detach the front shield.
4. Remove the three lock screws from the front unit and detach this unit.
5. Remove the one lock screw from the LED unit and detach this unit.
6. Remove the PC I/F unit and SR unit assemblies.
   - 6-1. Remove the two hexagonal shafts each from the system cable (white) terminal and the RS-232C terminal, both on the PC I/F unit.
   - 6-2. Remove two lock screws from the system cable (gray) terminal also on the SR unit.
   - 6-3. Remove the two lock screws from the PC I/F unit bracket.
   - 6-4. Remove the four lock screws from the PC I/F unit and SR unit assemblies. Take out these assemblies.
   - 6-5. Remove the three lock screws from the brackets of the PC I/F unit and SR unit assemblies. Detach the shield.
   - 6-6. Remove the six lock screws from the PC I/F unit. Detach this unit from the bracket.
   - 6-7. Remove the two lock screws from the SR unit. Detach this unit from the bracket.
7. Remove the seven lock screws from the main unit and detach this unit.



8. Remove the AV unit.
   8-1. Remove the coaxial cable from the antenna terminal.
   8-2. Remove the three lock screws from the antenna terminals
   8-3. Remove the six lock screws from the AV unit.
   8-4. Remove the six lock screws from the AV unit and detach this unit.
9. Remove the EMC unit assemblies.
   9-1. Remove the two lock screws from the EMC unit bracket.
   9-2. Remove the two lock screws from the EMC unit and detach this unit.
10. Remove the three lock screws from the power unit and detach this unit.

7.2 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

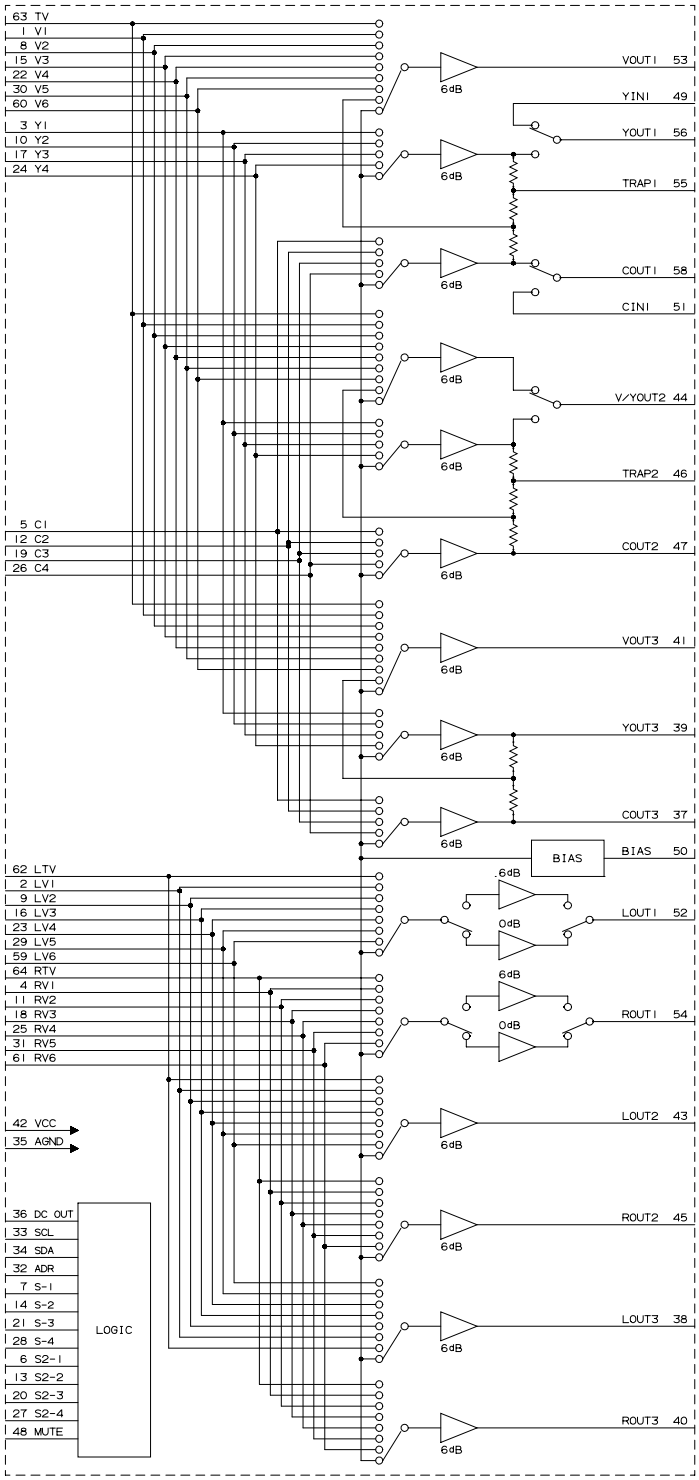
• List of IC

VHiCXA2069Q-1, VHiMM1519XQ-1, RH-iX3370CEN1Q, VHiTB1274AF-1Q, VHiCXA2101Q-1, RH-iXA194WJZZ, VHiTA1318AF-1, VHiPD64082/-1, VHiCXD2093Q-1, RH-iX3473CEZZ, VHiFA3675F/-1, VHiZ86129S+-1Y, VHiZ86230S+-1Y

■VHiCXA2069Q-1 (AV UNIT : IC1301)

• S2-Compatible, 7-Input/3-Ouput AV Switch

• Block Diagram



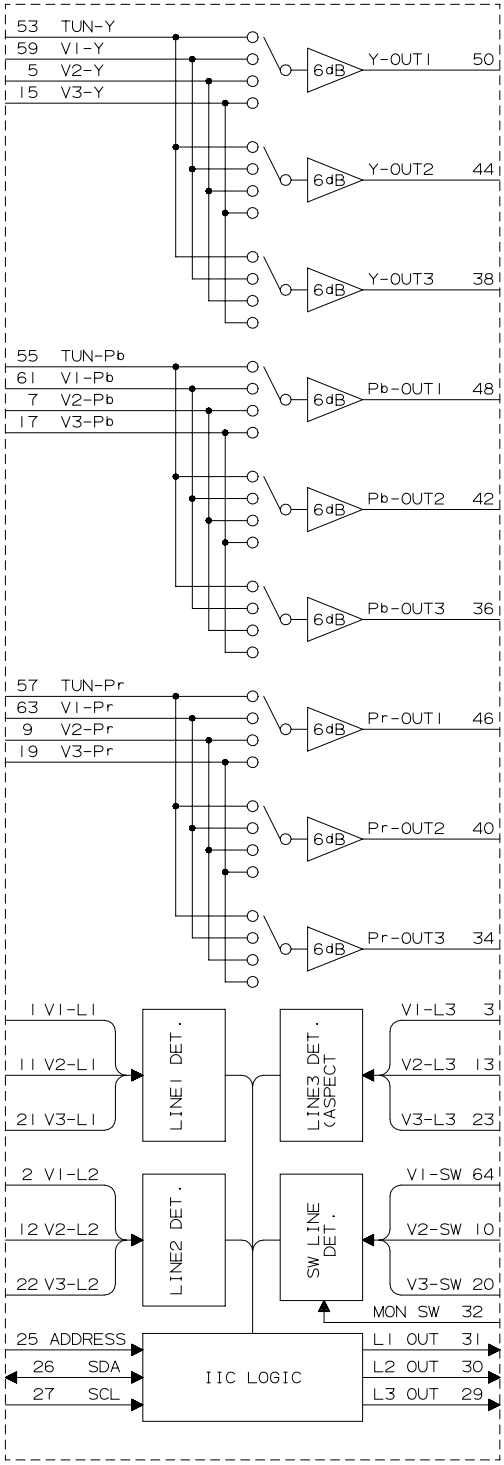
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
63	TV	I	Video signal input.
1	V1	I	Composite video signal input
8	V2	I	
15	V3	I	
22	V4	I	
30	V5	I	
60	V6	I	
3	Y1	I	Y/C-separated signal input terminal for luminance signal input. YIN1 to feed in the Y/C-separated signal of VOUT1 output.
10	Y2	I	
17	Y3	I	
24	Y4	I	
49	YIN1	I	
5	C1	I	Y/C-separated signal input terminal for chrominance signal input. CIN1 to feed in the Y/C-separated signal of VOUT1 output.
12	C2	I	
19	C3	I	
26	C4	I	
51	CIN1	I	
62, 2	LTV, LV1	I	Audio signal input terminal.
9, 16	LV2, LV3	I	
23, 29	LV4, LV5	I	
59, 64	LV6, RTV	I	
4, 11	RV1, RV2	I	
18, 25	RV3, RV4	I	
31, 61	RV5, RV6	I	
53	VOUT1	O	Video signal output terminal for composite video signal output.
41	VOUT3	O	
44	V/YOUT2	O	Video signal output terminal for selection between composite video signal output and luminance signal output by I2C Bus control.
56	YOUT1	O	Video signal output terminal for luminance signal output.
39	YOUT3	O	
58	COUT1	O	Video signal output terminal for chrominance signal output.
47	COUT2	O	
37	COUT3	O	
52	LOUT1	O	Audio signal output terminal.
43	LOUT2	O	
38	LOUT3	O	
54	ROUT1	O	
45	ROUT2	O	
40	ROUT3	O	
6	S2-1	I	Used to detect C signal-superimposed, S2-compatible DC level. 4:3 video signal when below 1.3V. 4:3 letterbox signal when between 1.3V and 2.5V. 16:9 image squeeze signal when above 2.5V. To be pulled down to GDN at 100K to produce 4:3 video signal when open.
13	S2-2	I	
20	S2-3	I	
27	S2-4	I	
7	S-1	I	Used to switch between composite video and S signals. Detection results to be written in status register. S signal when below 3.5V. Composite video signal when above 3.5V. To be pulled up to 5V at 100KΩ to produce composite video signal when open.
14	S-2	I	
21	S-3	I	
28	S-4	I	
32	ADR	I	Used to select I2C Bus slave address. 90H when below 1.5V. 92H when above 2.5V. 90H also when the terminal is open.
33	SCL	I	I2C Bus signal input terminal.
34	SDA	I	I2C Bus signal input terminal.
36	DC OUT	O	Used to feed out S2-compatible DC level to be superimposed on COUT3 output. DC to be superimposed by connecting to COUT3 output via a capacitor. Control to be made by I2C Bus. S2-specified output impedance of 10 ±3K to be realized by adding an external resistance of 4.7KΩ.
55	TRAP1	I	Subcarrier trap circuit to be connected.
46	TRAP2	I	
48	MUTE	I	Audio signal output mute terminal. Mute off when below 1.3V. Mute on when above 2.5V. Mute off when the terminal is open.
50	BIAS	I	Internal reference bias (Vcc/2) terminal. To be connected to GND with a capacitor in between.

■ VHiMM1519XQ-1 (AV UNIT : IC1401)

- **Component Input Video Switch**

- **Block Diagram**



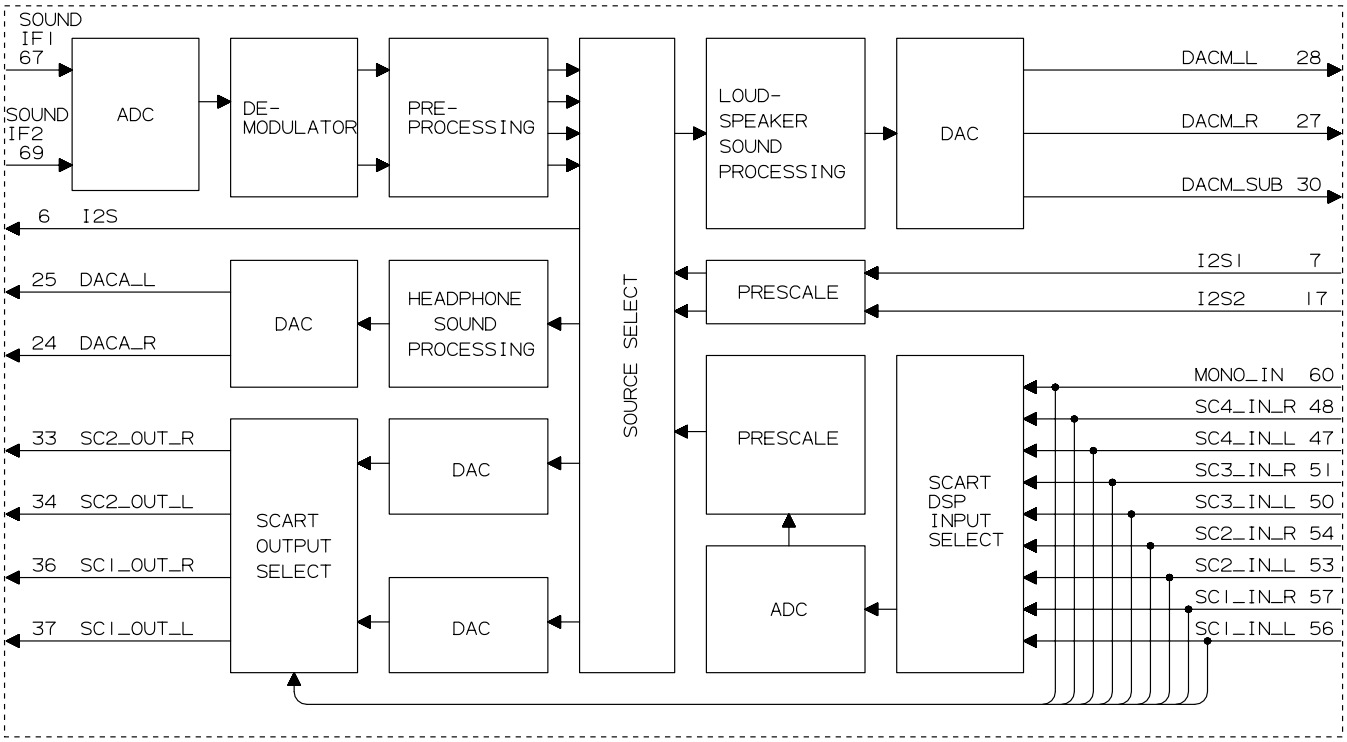
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	VIDEO 1-L1	I	Line input of D-terminal
2	VIDEO 1-L2	I	
3	VIDEO 1-L3	I	
11	VIDEO 2-L1	I	
12	VIDEO 2-L2	I	
13	VIDEO 2-L3	I	
21	VIDEO 3-L1	I	
22	VIDEO 3-L2	I	
23	VIDEO 3-L3	I	
4, 14, 39, 45, 52, 58	VCC	—	Analog power supply (9V)
51	AVCC	—	
5	VIDEO 2-Y	I	Y-signal input
15	VIDEO 3-Y	I	
53	TUNER-Y	I	
59	VIDEO 1-Y	I	
24	DGND	—	GND
6, 8, 16, 18, 33, 35, 37, 41, 43, 47, 49, 54, 56, 60, 62	GND	—	
7	VIDEO 2-Pb	I	Pb, Pr signal input
9	VIDEO 2-Pr	I	
17	VIDEO 3-Pb	I	
19	VIDEO 3-Pr	I	
55	TUNER-Pb	I	
57	TUNER-Pr	I	
61	VIDEO 1-Pb	I	
63	VIDEO 1-Pr	I	
10	VIDEO 2-SW	I	Switch line of D-terminal
20	VIDEO 3-SW	I	
32	MONO-SW	I	
64	VIDEO 1-SW	I	
25	ADDRESS	I	Slave address select pin
26	SDA	I/O	Data input of I2C bus
27	SCL	I	Clock input of I2C bus
28	DVCC	—	Digital power supply (5V)
29	L3 OUT	O	Line output for monitor
30	L2 OUT	O	
31	L1 OUT	O	
34	Pr OUT 3	O	Video signal output
36	Pb OUT 3	O	
38	Y OUT 3	O	
40	Pr OUT 2	O	
42	Pb OUT 2	O	
44	Y OUT 2	O	
46	Pr OUT 1	O	
48	Pb OUT 1	O	
50	Y OUT 1	O	

■ RH-iX3370CEN1 (AV UNIT : IC2501)

- **Multi Standard Sound Processor**

- **Block Diagram**

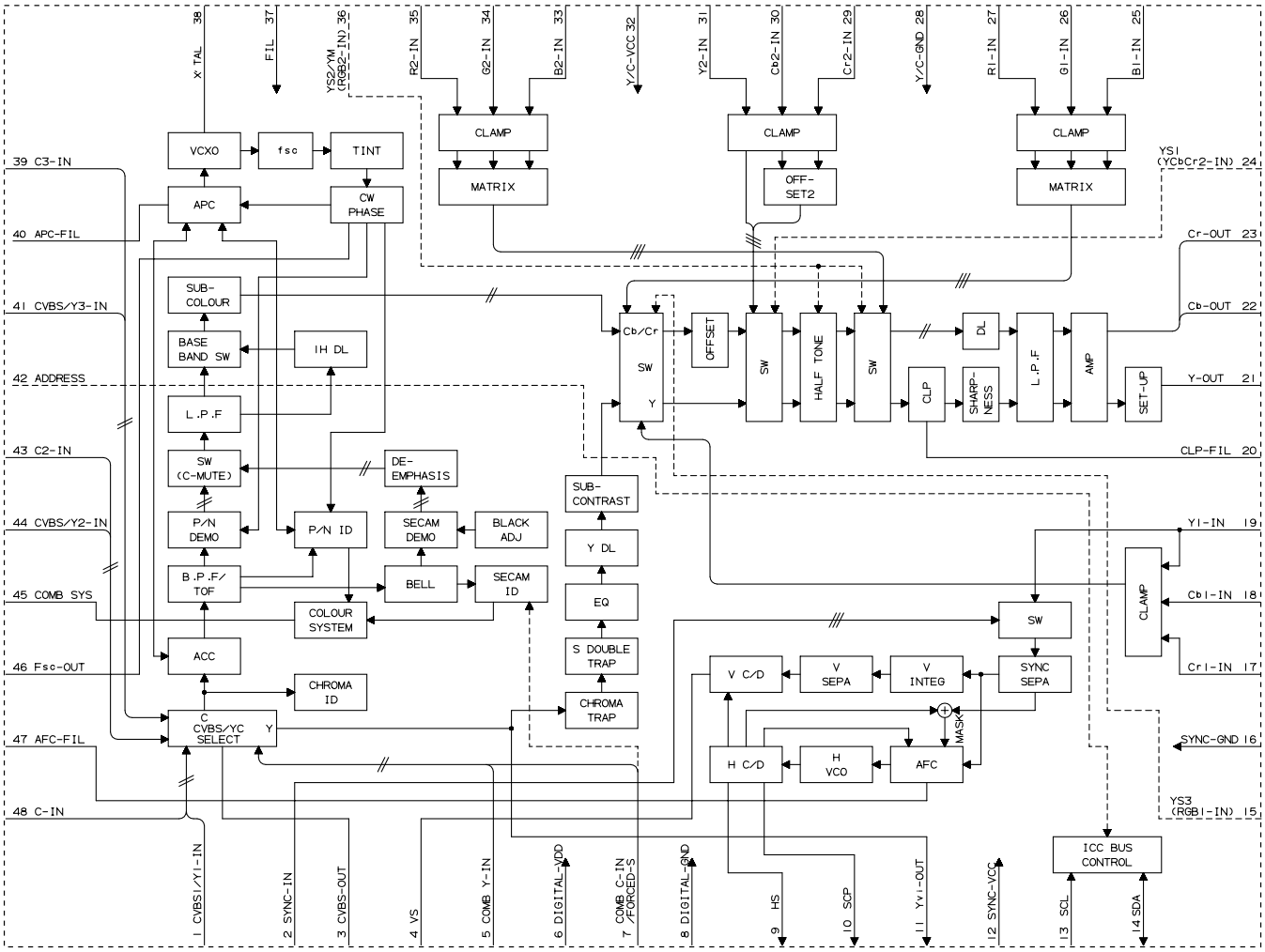


• **Pin Function**

Pin No.	Pin Name	I/O	Pin Function
1	NC	—	Not connected
2	I2C_CL	I/O	I2C clock
3	I2C_DA	I/O	I2C data
4	I2S_CL	I/O	I2S clock
5	I2S_WS	I/O	I2S word strobe
6	I2S_DA_OUT	O	I2S data output
7	I2S_DA_IN1	I	I2S1 data input
8	ADR_DA	O	ADR data output
9	ADR_WS	O	ADR word strobe
10	ADR_CL	O	ADR clock
11, 12, 13	DVSUP	—	Digital power supply 5V
14, 15, 16	DVSS	—	Digital ground
17	I2S_DA_IN2	I	I2S2-data input
18, 19, 20	NC	—	Not connected
21	RESETQ	I	Power-on-reset
22, 23	NC	—	Not connected
24	DACA_R	O	Headphone out, right
25	DACA_L	O	Headphone out, left
26	VREF2	—	Reference ground 2
27	DACM_R	O	Loudspeaker out, right
28	DACM_L	O	Loudspeaker out, left
29	NC	—	Not connected
30	DACM_SUB	O	Subwoofer output
31, 32	NC	—	Not connected
33	SC2_OUT_R	O	SCART 2 output, right
34	SC2_OUT_L	O	SCART 2 output, left
35	VREF1	—	Reference ground 1
36	SC1_OUT_R	O	SCART 1 output, right
37	SC1_OUT_L	O	SCART 1 output, left
38	CAPL_A	—	Volume capacitor AUX
39	AHVSUP	—	Analog power supply 8V
40	CAPL_M	—	Volume capacitor MAIN
41, 42	NC	—	Not connected
43, 44	AHVSS	—	Analog ground
45	AGNDC	—	Analog reference voltage
46	NC	—	Not connected
47	SC4_IN_L	I	SCART 4 input, left
48	SC4_IN_R	I	SCART 4 input, right
49	ASG4	—	Analog Shield Ground 4
50	SC3_IN_L	I	SCART 3 input, left
51	SC3_IN_R	I	SCART 3 input, right
52	ASG2	—	Analog Shield Ground 2
53	SC2_IN_L	I	SCART 2 input, left
54	SC2_IN_R	I	SCART 2 input, right
55	ASG1	—	Analog Shield Ground 1
56	SC1_IN_L	I	SCART 1 input, left
57	SC1_IN_R	I	SCART 1 input, right
58	VREFTOP	—	Reference voltage IF A/D converter
59	NC	—	Not connected
60	MONO_IN	I	Mono input
61, 62	AVSS	—	Analog ground
63, 64	NC	—	Not connected
65, 66	AVSUP	—	Analog power supply 5V
67	ANA_IN1+	I	IF input 1
68	ANA_IN-	I	IF common(can be left vacant, only if IF input 1 is also not in use)
69	ANA_IN2+	I	IF input 2(can be left vacant, only if IF input 1 is also not in use)
70	TESTEN	I	Test pin
71	XTAL_IN	I	Crystal oscillator
72	XTAL_OUT	O	
73	TP	—	Test pin
74	AUD_CL_OUT	O	Audio clock output (18.432MHz)
75, 76	NC	—	Not connected
77	D_CTR_I/O_1	I/O	D_CTR_I/O_1
78	D_CTR_I/O_0	I/O	D_CTR_I/O_0
79	ADR_SEL	I	I2C Bus address select
80	STANDBYQ	I	Stand-by (low-active)

■ VHiTB1274AF-1Q (MAIN UNIT : IC801, IC802)

- **VIDEO/CHROMA Processor**
- **Block Diagram**



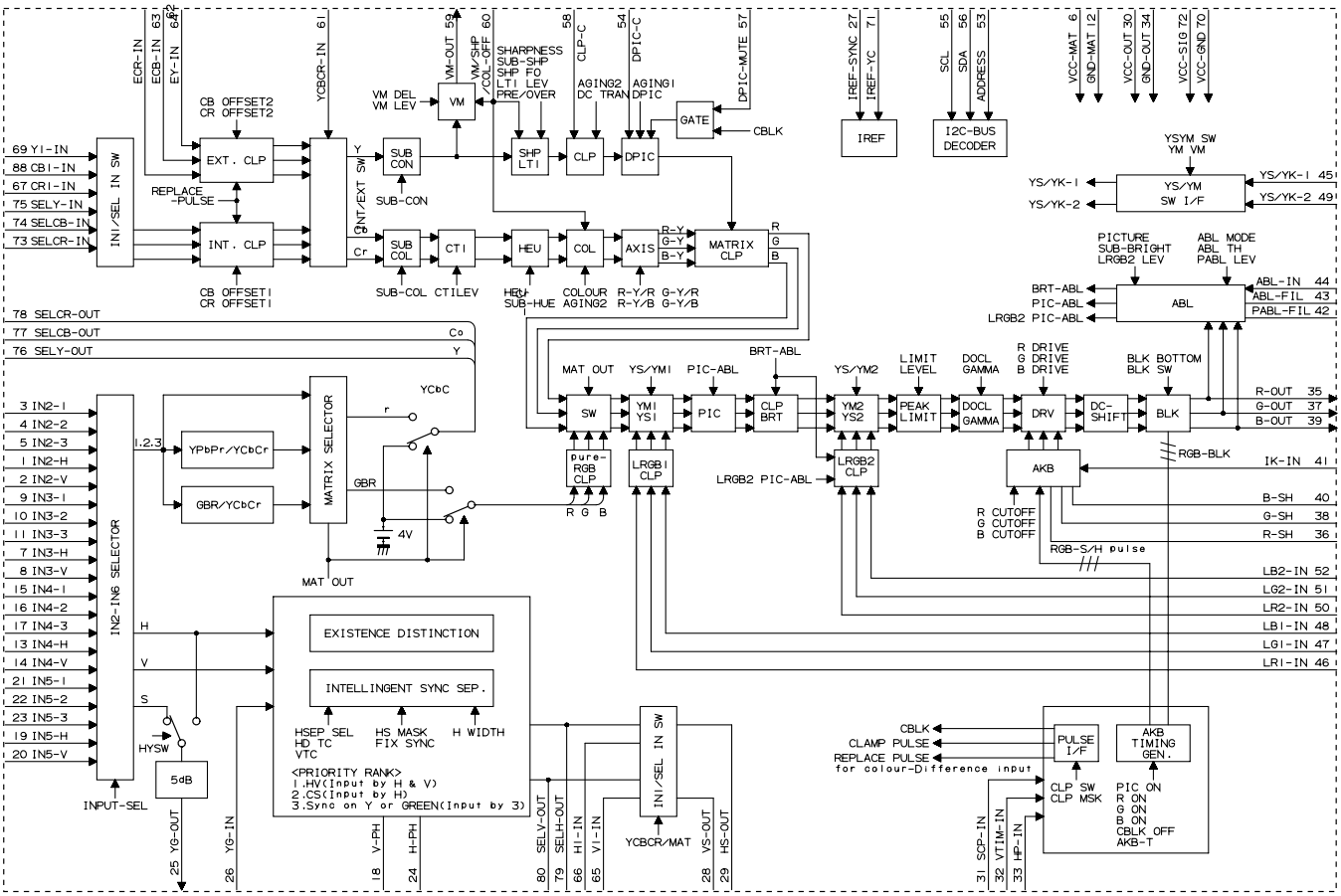
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	CVBS1/Y1-IN	I	CVBS1 or Y1-IN signal input.
2	SYNC-IN	I	Sync signal input.
3	CVBS-OUT	O	CVBS or Y+C signal output terminal.
4	VS	O	Counted-down vertical sync signal output.
5	COMB Y-IN	I	Input of Y signal coming from comb filter. Open when not used.
6	D-VDD	—	DDS/BUS/V-CD/H-CD block power supply. DC5V (standard).
7	COMB C-IN	I	Input of C signal coming from comb filter. Open when not used.
8	D-GND	—	DDS/BUS/V-CD/H-CD block grounding terminal.
9	HS	O	H-AFC-processed horizontal sync signal output.
10	SCP	O	Sand Castle Pulse output. Clamping pulse and horizontal blanking pulse outputs.
11	Yvi-IN	O	Output of sync input Y signal selected with Video-SW.
12	SYNC-VCC	—	SYNC/HVCO block power supply. DC5V (standard).
13	SCL	I	I2C BUS SCL terminal.
14	SDA	I/O	I2C BUS SDA terminal.
15	YS3 (RGB1-in)	I	Selector switch for main signal and RGB1 input signal. YS3 input effective only when "RGB1-ENB" is set at "enable" in bus setting.
16	SYNC-GND	—	SYNC/HVCO block grounding terminal.
17	Cr1-IN	I	Y1/Cb1/Cr1 signal input.
18	Cb1-IN	I	
19	Y1-IN	I	
20	CLP-FIL	—	Y clamp filter to be connected.
21	Y-OUT	O	Y/Cb/Cr signal output.
22	Cb-OUT	O	
23	Cr-OUT	O	
24	YS1 (YVbC2-IN)	I	Selector switch for main signal and Y/Cr/Cb2 input signal.
25	B1-IN	I	RGB1 signal input. This input is selected at YS3 or I2C BUS.
26	G1-IN	I	
27	R1-IN	I	
28	Y/C-GND	—	Y/C/Text/Video-SW/1HDL block grounding terminal.
29	Cr2-IN	I	Y2/Cb2/Cr2 signal input. This input is selected at YS1. Open when not used.
30	Cb2-IN	I	
31	Y2-IN	I	
32	Y/C-VCC	—	Y/C/Text/Video-SW/1HDL block power supply. DC5V (standard)
33	B2-IN	I	RGB2 signal input. This input is selected at YS2. Open when not used.
34	G2-IN	I	
35	R2-IN	I	
36	YS2/YM (RGB2-IN)	I	Selector switch for main signal and RGB2 input signal.
37	FIL.	—	Connected to Y/C-VCC terminal.
38	X'TAL	—	16.2MHz crystal oscillator to be connected.
39	C3-IN	I	Chroma signal input. Open when not used.
40	APC-FIL	—	Chroma demodulation filter to be connected.
41	CVBS3/Y3-IN	I	CVBS3 or Y3 signal input. Open when not used.
42	ADDRESS	I	Slave address to be preset.
43	C2-IN	I	Chroma signal input. Open when not used.
44	CVBS2/Y2-IN	I	CVBS2 or Y2 signal input. Open when not used.
45	COMB SYS	O	Received color system judgment result to be output from this pin and pin 46.
46	Fsc-OUT	O	Subcarrier output.
47	AFC-FIL	—	AFC detection filter to be connected.
48	C1-IN	I	Chroma signal input. Open when not used.

■ VHICXA2101Q-1 (MAIN UNIT : IC803)

• Baseband Video Signal Processor

• Block Diagram



• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	IN2-H	I	IN2-H : Independent horizontal sync signal input terminal.
2	IN2-V	I	IN2-V : Independent vertical sync signal input terminal.
3	IN2-1	I	IN2 line signal input terminal.
4	IN2-2	I	
5	IN2-3	I	
6	Vcc-MAT	—	Selector line and sync processor line power terminal.
7	IN3-H	I	IN3-H : Independent horizontal sync signal input terminal.
8	IN3-V	I	IN3-V : Independent vertical sync signal input terminal.
9	IN3-1	I	IN3 line signal input terminal.
10	IN3-2	I	
11	IN3-3	I	
12	GND-MAT	—	Selector line and sync processor line grounding terminal.
13	IN4-H	I	IN4-H : Independent horizontal sync signal input terminal.
14	IN4-V	I	IN4-V : Independent vertical sync signal input terminal.
15	IN4-1	I	IN4 line signal input terminal.
16	IN4-2	I	
17	IN4-3	I	

Pin No.	Pin Name	I/O	Pin Function
18	V-PH		Vsync peak holding capacitor connection terminal.
19	IN5-H	I	IN5-H : Independent horizontal sync signal input terminal.
20	IN5-V	I	IN5-V : Independent vertical sync signal input terminal.
21	IN5-1	I	IN5 line signal input terminal.
22	IN5-2	I	
23	IN5-3	I	
24	H-PH		Hsync peak holding capacitor connection terminal.
25	YG-OUT	O	Sync separation composite video signal output terminal.
26	YG-IN	I	Sync separation composite video signal input terminal.
27	IREF-SYNC		Reference current setting terminal (about 4.6V)
28	VS-OUT	O	Used to select between IN1-line HV and IN2/IN5-line selector output HV by I2C BUS "YCBCR/MAT" and feed out the signal in positive polarity.
29	HS-OUT	O	
30	Vcc-OUT	O	RGB line power terminal.
31	SCP-IN	I	Sand-Castle-Pulse input terminal.
32	VTIM-IN	I	V timing pulse input terminal.
33	HP-IN	I	H pulse input terminal.
34	GND-OUT	O	RGB line grounding terminal.
35	R-OUT	O	RGB signal output terminal.
37	G-OUT	O	Output to be made at 2.6Vp-p with 100IRE white input.
39	B-OUT	O	
36	R-SH		RGB AKB sample-and-hold terminal.
38	G-SH		
40	B-SH		
41	IK-IN	I	Reference pulse to return to this terminal.
42	PABL-FIL		Peak ABL peak holding terminal.
43	ABL-FIL		Used to form LPF for ABL control signal.
44	ABL-IN		ABL control signal input terminal.
45	YS/YM-1		YM1/YS1 control input terminal. Input level to be of 3 values. VM turning-off function also available when YM and YS have reached their specified values.
46	LR1-IN	I	Analog RGB1 signal input terminal.
47	LG1-IN	I	
48	LB1-IN	I	
49	YS/YM-2	I	YM2/YS2 control input terminal. Input level to be of 3 values. VM turning-off function also available when YM and YS have reached their specified values.
50	LR2-IN	I	Analog RGB2 signal input terminal.
51	LG2-IN	I	
52	LB2-IN	I	
53	ADDRESS	I	I2C BUS slave address setting terminal.
54	DPIC-C	I	Capacitor to be connected for grounding in order to detect the black signal in dynamic picture (black stretching).
55	SCL	I	I2C BUS standard SCL (Serial Clock) input terminal.
56	SDA	I	I2C BUS standard SDA (Serial Data) input terminal.
57	DPIC-MUTE		Used to control MUTE of dynamic picture (black stretching).
58	CLP-C	O	Y line clamp capacitor connection terminal.
59	VM-OUT		VM output terminal to feed out Y signal's differential waveform in positive polarity.
60	VM/SHP/COL-OFF	I	Used to turn off VMÅASHARPNESS and COLOUR. Input level to be 3 values
61	YCBCR-SW	I	Used to switch between INT and EXT SW input signals. External input terminal to be selected at High level.
62	ECR-IN	I	External Y, Cb, and Cr input terminals.
63	ECB-IN	I	
64	EY-IN	I	
65	V1-IN	I	IN1-line HV input terminal. Positive-polarity input.
66	H1-IN	I	
67	CR1-IN	I	IN1-line Y, Cb, and Cr input terminals.
68	CB1-IN	I	
69	Y1-IN	—	
70	GND-SIG		Y color difference signal processor grounding terminal.
71	IREF-YC	—	Reference current setting terminal (mainly for Y color difference signal processing line).
72	Vcc-SIG	I	Y color difference signal processor power terminal.
73	SELCR-IN	I	Used to feed in selector outputs Y, Cb, and Cr through clamp capacitor.
74	SELCB-IN	I	
75	SELY-IN	O	
76	SELY-OUT	O	IN2- thru IN5-line selector output terminals.
77	SELCB-OUT	O	Used to feed out Y-, Cb-, and Cr-converted signals.
78	SELCR-OUT	O	
79	SELH-OUT	O	IN2 thru IN5 selector HV output terminals.
80	SELV-OUT		

■ RH-iXA194WJZZ (MAIN UNIT : IC1901)

• PLD (Programmable Logic Device)

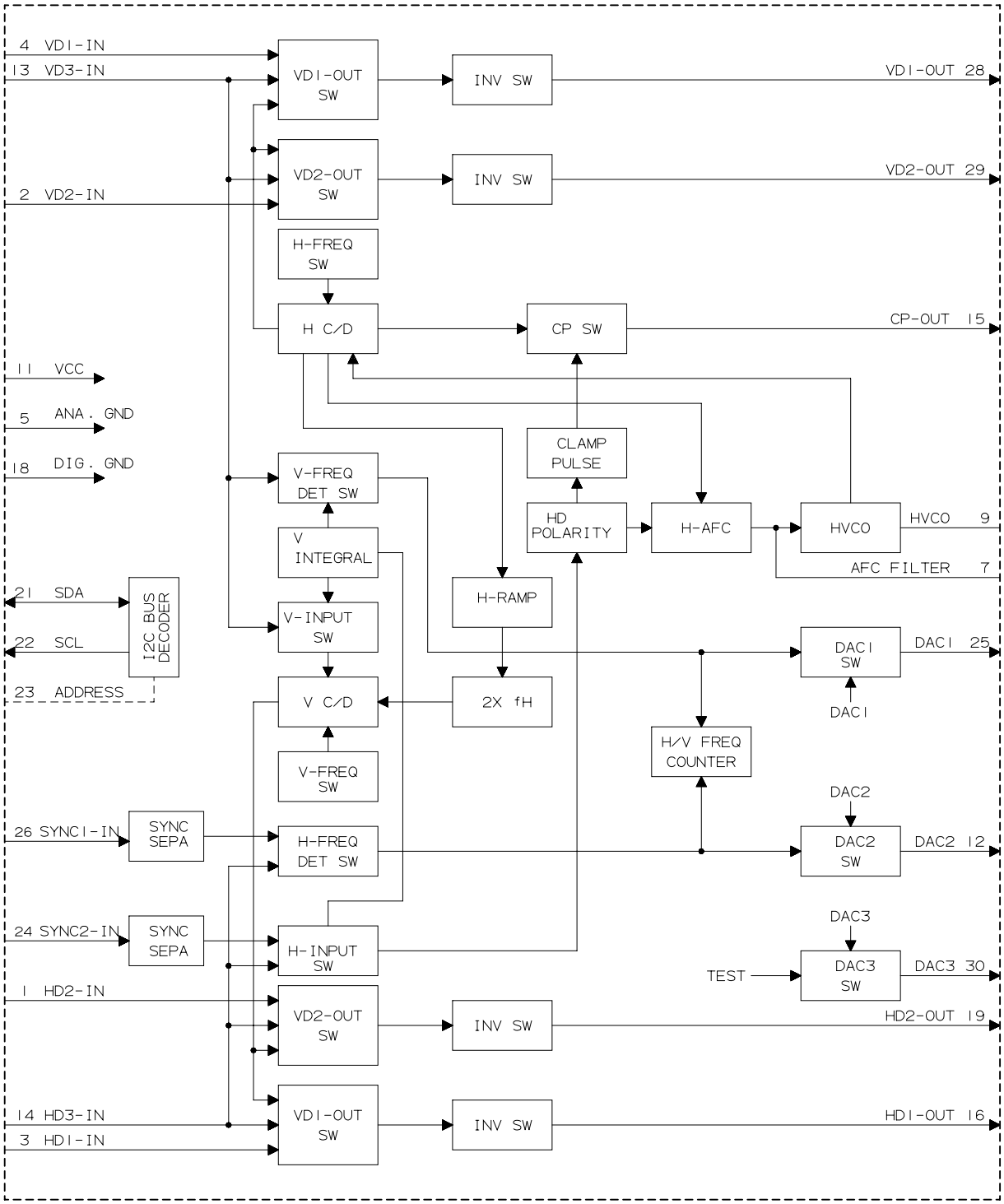
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	TDI	I/O	
2	VD1	I/O	
3	SP_HD	I/O	
4	GND	—	Ground
5	SP_VD	I/O	
6	SP_CP	I/O	
7	TMS	I/O	
8	HD3	I/O	
9	VCC	—	Power supply (3.3V)
10	VD3	I/O	
11	GND	—	Ground
12	MODEA	I/O	
13	MODEB	I/O	
14	MODEC	I/O	
15	SELA	I/O	
16	GND	—	Ground
17	VCC	—	Power supply (3.3V)
18	SELO	I/O	
19	HD2	I/O	
20	VD2	I/O	
21	HDS	I/O	
22	VDS	I/O	
23	US_VD	I/O	
24	GND	—	Ground
25	US_HD	I/O	
26	TCK	I/O	
27	TEXT_VD	I/O	
28	TEXT_HD	I/O	
29	VCC	—	Power supply (3.3V)
30	GND	—	Ground
31	PL_BLK	I/O	
32	TDO	I/O	
33	PLCP	I/O	
34	PL_HD	I/O	
35	PL_VD	I/O	
36	GND	—	Ground
37	GCLK1	I	External clock input. 16MHz
38	OE1	I	
39	GCLRn	I	
40	OE2/GCLK2	I	
41	VCC	—	Power supply (3.3V)
42	CNR_CP	I/O	
43	CNR_HBLK	I/O	
44	HD1	I/O	

■ VHiTA1318AF-1 (MAIN UNIT : IC604)

- **Sync Processor**

- **Block Diagram**

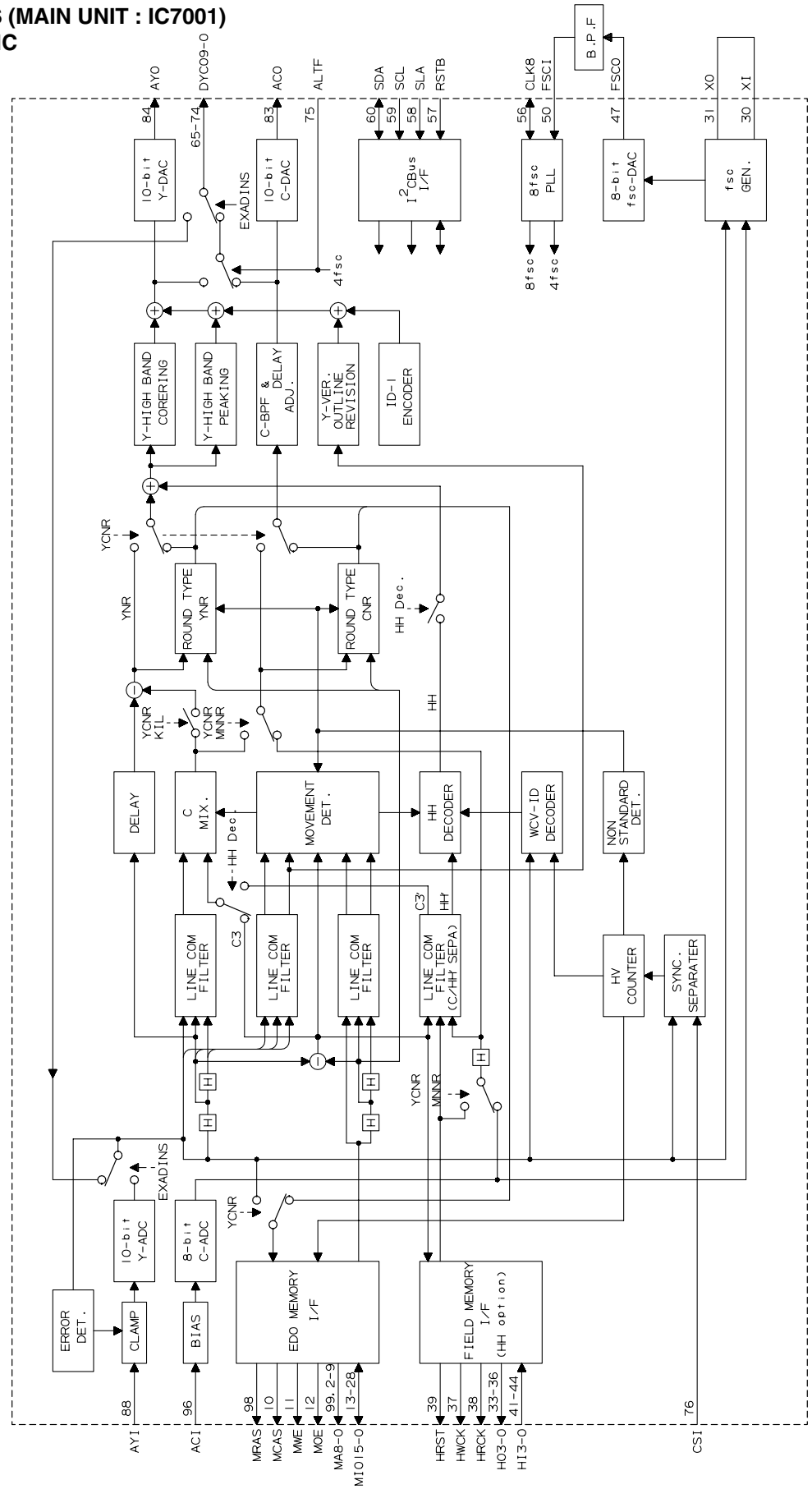


• Pin Function

Pin No.	Pin Name	I/O	Pin Function
3	HD1-IN	I	Input the horizontal synchronizing signal.
1	HD2-IN	I	It's polarity corresponds to both positive and negative.
11	HD3-IN	I	Input from this pin does not be synchronized internally.
4	VD1-IN	I	Input the horizontal vertical signal.
2	VD2-IN	I	It's polarity corresponds to both positive and negative.
10	VD3-IN	I	Input from this pin does not be synchronized internally.
5	ANALOG GND	—	The GND pin for analog circuit block.
6	AFC FILTER	—	Connect the filter for horizontal AFC. The frequency of the horizontal output is varied by the volyage at this pin.
7	HVCO	—	Connect the ceramic oscillator for horizontal oscillator.
8	VCC	—	The VCC pin. (9.0V)
20	DAC1 (V. SYNC output)	O	DAC1 output pin. When TEST mode, VD or vertical sync signal to frequency counter circuit is output.
9	DAC2 (H/C. SYNC output)	O	DAC2 output pin. When TEST mode, HD or composite sync signal to frequency counter circuit is output.
24	DAC3	O	DAC3 output pin. This pin is open-collector system. When TEST mode, test pilses for the shipping is output.
12	CP-OUT	O	Clamp pulse output pin. CP mode at synchronization circuit is output.
13	HD1-OUT	O	HD output pin. This pin is open-collector system.
15	HD2-OUT	O	HD1/HD2 does not be synchronizing and they are output from this pin. It's polarity is switched by BUS write function.
14	DIGITAL GND	—	The GND pin for logic circuit block.
16	SDA	I/O	The SDA pin for I"C BUS.
17	SCL	I	The SCL pin for I"C BUS.
18	ADDRESS SW	I	Slave address switch.
21	SYNC1-IN	I	Input a signal to separate sync signal.
19	SYNC2-IN	I	
22	VD1-OUT	O	VD output pin. This pin is open-collector system.
23	VD2-OUT	O	VD1/VD2 does not be synchronizing and they are output from this pin. It's polarity is switched by BUS write function.

■ VHiPD64082/-1S (MAIN UNIT : IC7001)

- **Y/C Separate IC**
- **Block Diagram**



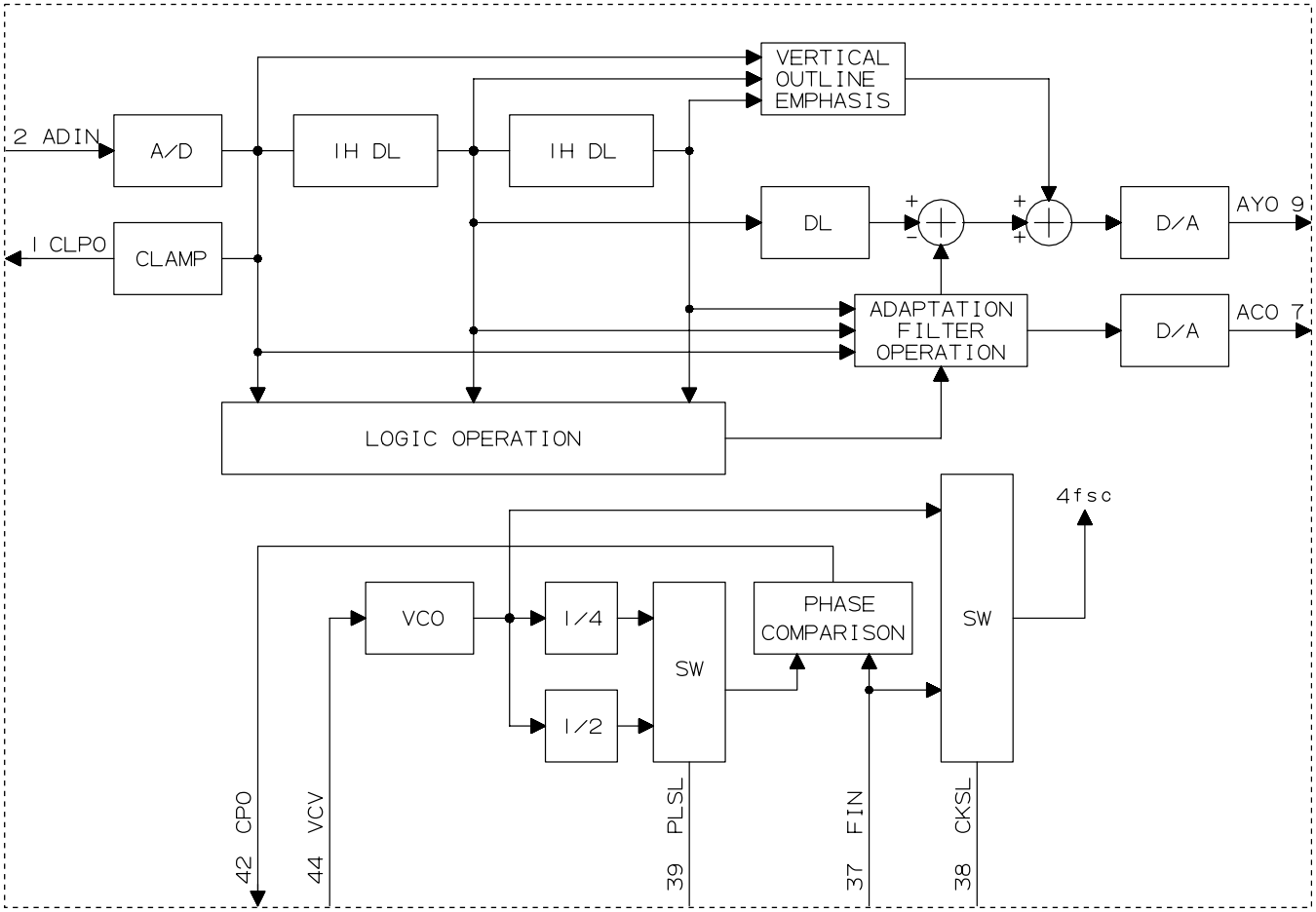
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1, 40, 55, 80	DGND	—	Digital section grounding.
45, 64, 100	DVDD	—	Digital section power.
98	MRAS	O	External EDO memory RAS output.
99	MA8	O	External EDO memory address output.
2-9	MA7-MA0	O	External EDO memory address output.
10	MCAS	O	External EDO memory CAS output.
11	MWE	O	External EDO memory WE output.
12	MOE	O	External EDO memory OE output.
13-28	MIO15-MIO0	I/O	External EDO memory data input/output.
29	DGND	—	fsc generator digital section grounding.
30	XI	I	fsc generator reference clock input.
31	XO	O	fsc generator reference clock reverse output.
32	DVDD	—	fsc generator digital section power.
33-36	HO3-HO0	O	External field memory data output.
37	HWCK	O	External field memory write clock output.
38	HRCK	O	External field memory read clock output.
39	HRST	O	External field memory reset signal output.
41-44	HI3-HI0	I	External field memory input.
46	AVDD	—	fsc generator DAC power.
47	FSCO	—	fsc generator fsc output.
48	AGND	—	fsc generator DAC grounding.
49	AGND	—	8fsc-PLL grounding.
50	FSCI	—	8fsc-PLL fsc input.
51	CPLL	—	8fsc-PLL filter output.
52	RPLL	I	Test input.
53	AVDD	—	8fsc-PLL power.
54	CKMD	I	CLK8 test mode select (L: Usual, H: Test mode).
56	CLK8	O/I	8fsc clock output (8fsc clock input at CLK8 test mode).
57	RSTB	I	System reset input (Active Low).
58	SLA0	I	(Active-Low reset pulse input from outside) PC bus slave address select input (L: B8/B9h, H: BA/BBh).
59	SCL	I	PC bus clock input (To be connected to system's SCL line).
60	SDA	I/O	PC bus clock input/output (To be connected to system's SDA line).
61	ST0	O	nternal signal monitor output.
62	ST1	O	Internal signal monitor output.
63	NSTD	O	Non-standard detection monitor output. (L: Judged standard, H: Judged non-standard)
65-74	DYCO0-DYCO9	I/O	EXADINS=0: Digital Y/C signal alternate output. EXADINS=1: External Y-ADC data input. (Non-used lower bits to be connected to GND with resistor in between)
75	ALTF	O	EXADINS=0: Digital Y/C signal alternate flag output (L: Y, H: C). EXADINS=1: External Y-ADC 4fsc clock output.
76	CSI	I	Composite sync input (Active Low).
77	TEST	I	IC select test terminal (L: Usual operation, H: Test mode). (Connected to GND)
78	LINE	I	Forced line-to-line process select input (L: Usual operation, H: Forced line-to-line processing).
79	KIL	I	External killer input (L: Usual operation, H: Forced Y/C separation stop).
81	AVDD	—	Y-DAC, C-DAC power.
82	CBPC	O	C-DAC phase compensation output.
83	ACO	O	C-DAC analog C signal output.
84	AYO	O	Y-DAC analog Y signal output.
85	CBPY	O	Y-DAC phase compensation output.
86	AGND	—	Y-DAC, C-DAC grounding.
87	AGND	—	Y-ADC grounding.
88	AYI	I	Y-ADC analog composite signal/Y signal input.
89	VCLY	O	Y-ADC clamp potential output.
90	VRBY	O	Y-ADC bottom reference voltage output.
91	VRTY	O	Y-ADC top reference voltage output.
92	AVDD	—	Y-ADC power.
93	AVDD	—	C-ADC power.
94	VRTC	O	C-ADC top reference voltage output.
95	VRBC	O	C-ADC bottom reference voltage output.
96	ACI	I	C-ADC analog C signal input.
97	AGND	—	C-ADC grounding.

■ VHiCXD2093Q-1 (MAIN UNIT : IC402)

- **Digital Comb Filter**

- **Block Diagram**



• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	CLPO	O	Built-in clamp circuit current output terminal. To be connected to ADIN when built-in clamp is used.
2	ADIN	I	Comb filter analog input (A/D converter) terminal.
3	RB	O	A/D converter reference bottom voltage. (standard 0.52V)
4	ADVS	—	A/D converter analog grounding terminal.
5	ADVD	—	A/D converter analog power terminal. (5.0V)
6	RT	O	A/D converter reference top voltage. (standard 2.6V)
7	ACO	O	Analog chroma signal output terminal. Resistance to be added between this pin and GND (DAVS) for obtaining the output.
8	DAVD	—	D/A converter analog power terminal. (5.0V)
9	AYO	O	Analog luminance signal output terminal. Resistance to be added between this pin and GND (DAVS) for obtaining the output.
10	DAVS	—	D/A converter analog grounding terminal.
11	VG	O	D/A converter terminal.
12	VRF	I	Y,C ch D/A converter output full-scale setting terminal.
13	IRF	O	x16 resistance to be connected against D/A converter output resistance “R”.
14	VB	O	D/A converter terminal.
15, 28	TEST	I	Test terminal. Usually fixed at Low.
32, 33, 35,	TEST	I	Test terminal. Usually open or fixed at Low.
16, 27, 34	DVDD	—	Digital power terminal. (5.0V)
18,23-26,29,36	DVSS	—	Digital grounding terminal.
17	MOD2	I	Y/C separation mode setting terminal. MOD2 MOD1 L L Most suitable process H L BPF separation mode
19	MOD1	I	
20	VEH3	I	Vertical contour enhancement setting terminal. VEH3 VEH2 VEH1: Presettable in 8 steps from LLL(Off) to HHH(Max).
21	VEH2	I	
22	VEH1	I	
30	APCN	I	Horizontal aperture correction circuit setting terminal. L: off, H: on
31	TRAP	I	Trap filter circuit setting terminal. L: off, H: on
37	FIN	I	Clock input terminal. Burst lock (4fsc) to be fed in with built-in PLL system. Burst-locked 4fsc signal to be fed in when PLL is not used.
38	CKSL	I	PLL control terminal. L : PLL not used. FIN input clock (4fsc) to be fed in. H : PLL used. VCO oscillator output’s 4fsc clock to be fed in.
39	PLSL	I	FIN input fsc to be selected. L: fsc input, H: 2fsc input. Either at L or H when 4fsc is fed in PLL (without built-in PLL).
40	MCKO	O	Clock (4fsc) output terminal.
41	ADCK	I	A/D converter clock input terminal. To be connected to MCKO.
42	CPO	O	PLL phase comparator output terminal. Open when PLL is not used.
43	PLVS	—	PLL analog grounding terminal.
44	VCV	I	VCO control voltage input terminal. To be connected to PLVS when PLL is not used.
45	PLVD	—	PLL analog power terminal. (5.0V)
46	CLVD	—	Clamp D/A converter analog power terminal. (5.0V)
47	CLPEN	I	Clamp circuit enable terminal. L: Clamp on, H: Clamp off
48	CLVS	—	Clamp D/A converter analog grounding terminal.

■ **RH-iX3473CEZZ (ASSY: IC804, IC810)**

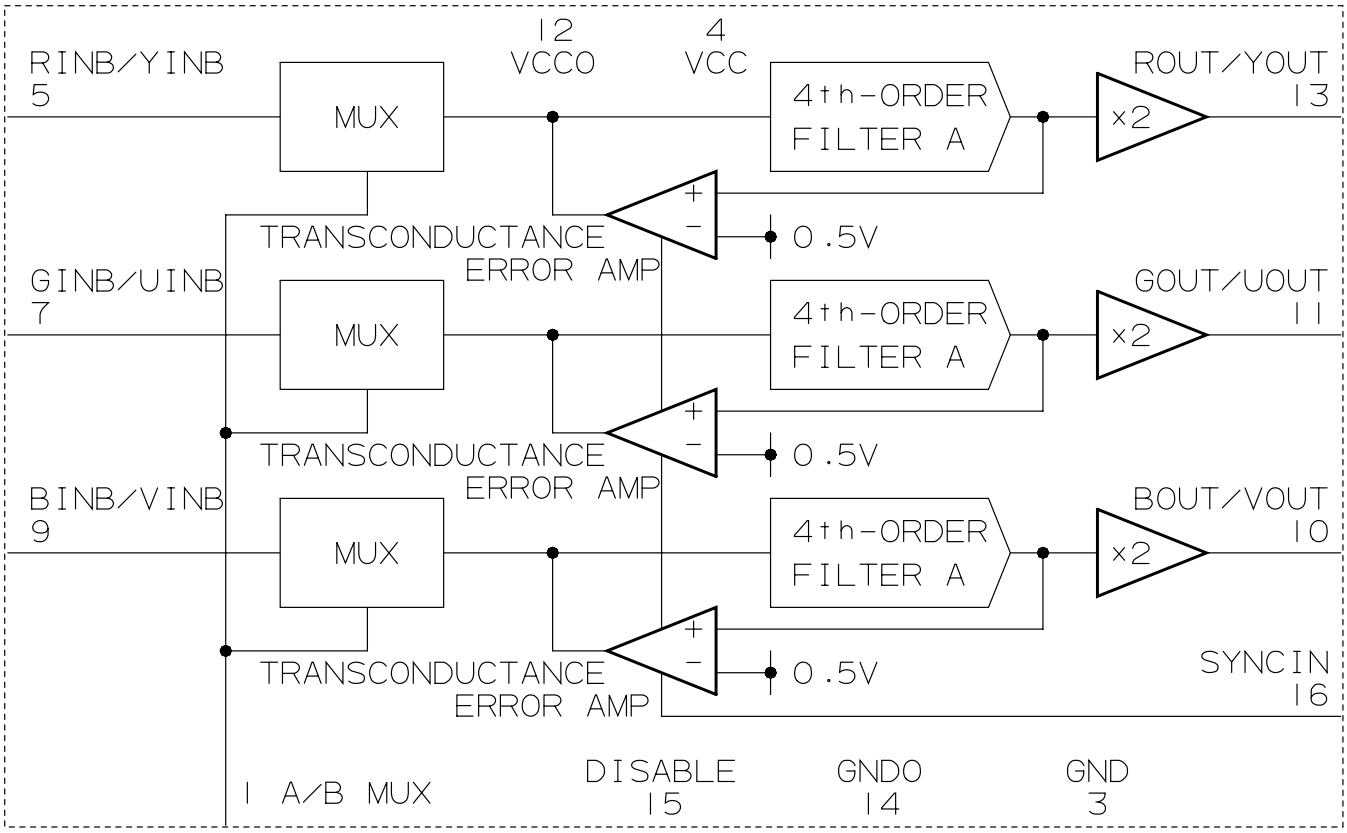
■ **RH-iX3474CEZZ (ASSY: IC811)**

- **Monolithic Video Filter**

* RH-iX3473CEZZ is 6.7MHz at Cut-off frequency.

* RH-iX3474CEZZ is 30MHz at Cut-off frequency.

- **Block Diagram**



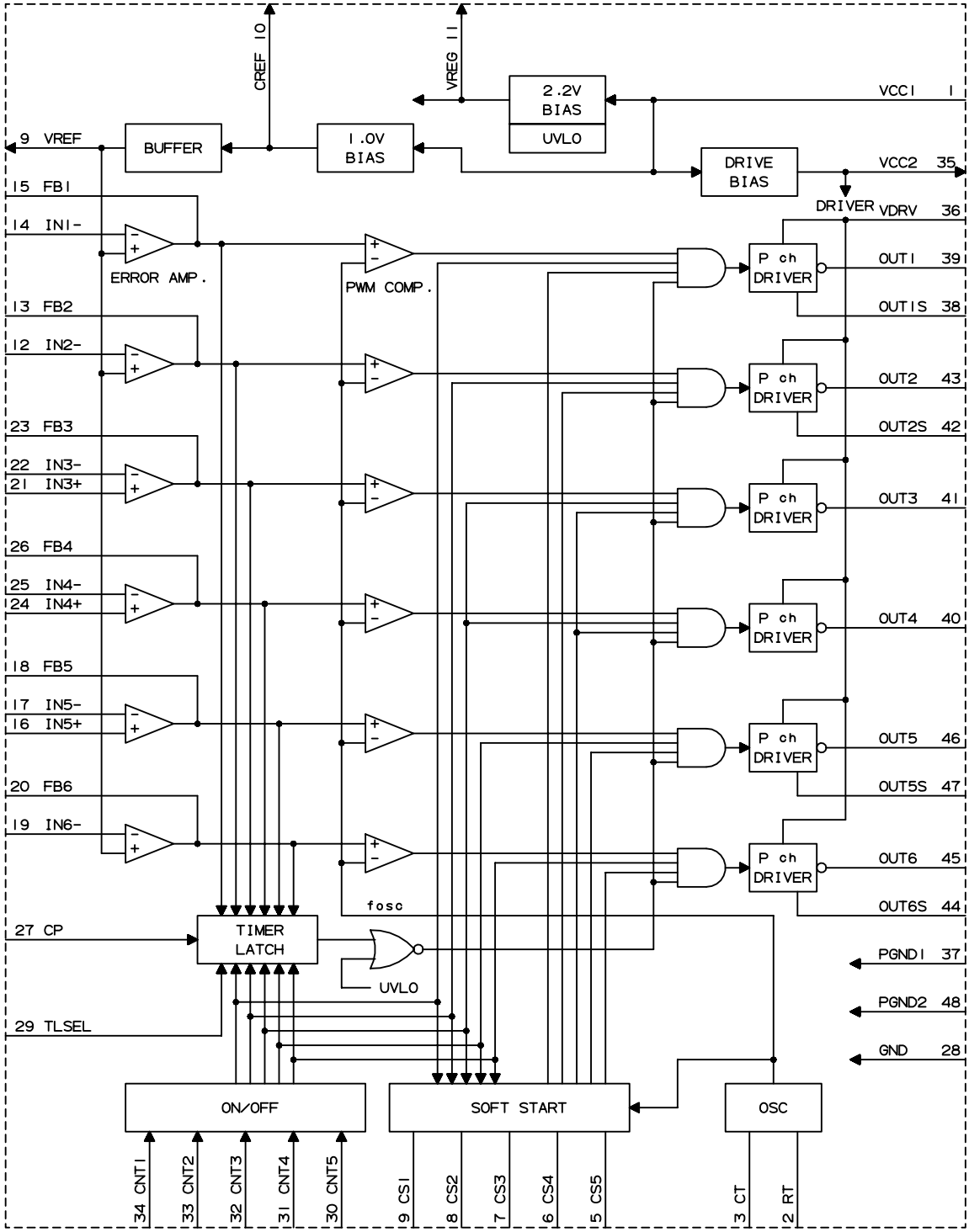
- **Pin Function**

Pin No.	Pin Name	I/O	Pin Function
1	A/B MUX	—	Logic input pin to select between Bank <A> and Bank <B> video inputs. This pin is internally pulled high.
2	RINA/YINA	I	Unfiltered analog R- or Y-channel input for Bank <A>, Sync must be provided at SYNC IN pin.
3	GND	—	Analog ground.
4	VCC	—	Analog 5V supply.
5	RINB/YINB	I	Unfiltered analog R or Y-channel input for Bank <B>, Sync must be provided at SYNC IN pin.
6	GINA/UINA	I	Unfiltered analog G or U-channel input for Bank <A>, Sync must be provided at SYNC IN pin.
7	GINB/UINB	I	Unfiltered analog G or U-channel input for Bank <B>, Sync must be provided at SYNC IN pin.
8	BINA/VINA	I	Unfiltered analog B or V-channel input for Bank <A>, Sync must be provided at SYNC IN pin.
9	BINB/VINB	I	Unfiltered analog B or V-channel input for Bank <B>, Sync must be provided at SYNC IN pin.
10	BOUT	O	Analog B or V-channel output.
11	GOUT	O	Analog G or U-channel output.
12	VCCO	—	5V power supply for output buffers.
13	ROUT	O	Analog R or Y-channel output.
14	GNDO	—	Analog ground.
15	DISABLE	I	Disable/Enable pin. Turns the chip off when logic high. Internally pulled low.
16	SYNC IN	I	Input for an external H-sync logic signal for filter channels. CMOS level input. Active High.

■ VHiFA3675F/-1 (ASSY: IC1701)

- **6-channel DC-DC Converter IC**

- **Block Diagram**

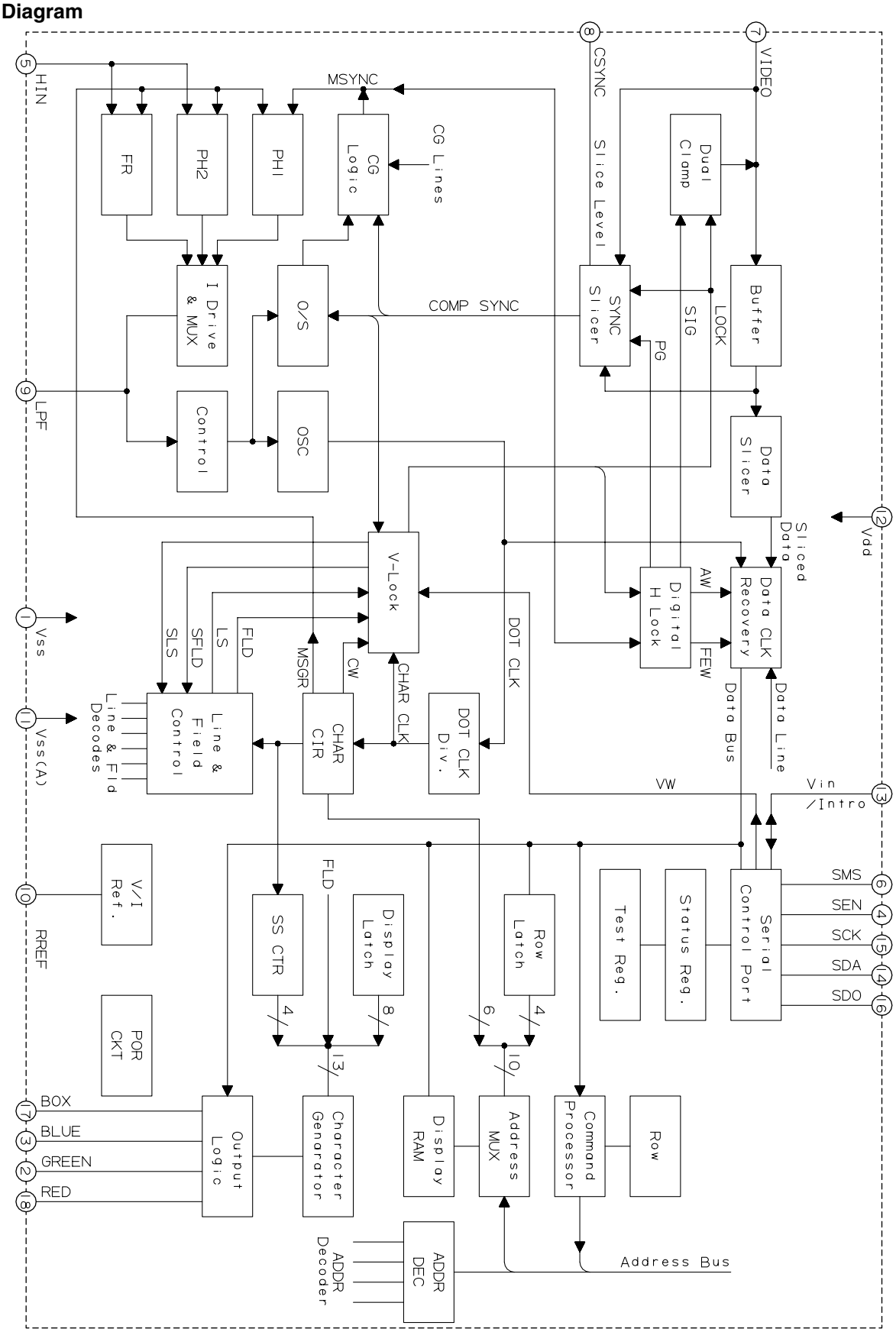


• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	VCC1	—	Power supply for control circuit.
2	RT	—	Oscillator timing resistor.
3	CT	—	Oscillator timing capacitor.
4	CS3	—	Soft start for Ch.3 & Ch.4.
5	CS5	—	Soft start for Ch.6.
6	CS4	—	Soft start for Ch.5.
7	CS1	—	Soft start for Ch.1
8	CS2	—	Soft start for Ch.2.
9	VREF	O	Reference voltage output.
10	CREF	O	Capacitor for reference voltage output.
11	VREG	O	Regulated for voltage output.
12	IN2-	I	Ch.2 inverting input to error amplifier.
13	FB2	O	Ch.2 output of error amplifier.
14	IN1-	I	Ch.1 inverting input to error amplifier.
15	FB1	O	Ch.1 output of error amplifier.
16	IN5+	I	Ch.5 non-inverting input to error amplifier.
17	IN5-	I	Ch.5 inverting input to error amplifier.
18	FB5	O	Ch.5 output of error amplifier.
19	IN6-	I	Ch.6 inverting input to error amplifier.
20	FB6	O	Ch.6 output of error amplifier.
21	IN3+	I	Ch.3 non-inverting input to error amplifier.
22	IN3-	I	Ch.3 inverting input to error amplifier.
23	FB3	O	Ch.3 output of error amplifier.
24	IN4+	I	Ch.4 non-inverting input to error amplifier.
25	IN4-	I	Ch.4 inverting input to error amplifier.
26	FB4	O	Ch.4 output of error amplifier.
27	CP	I	Timing capacitor for timer latch delay.
28	GND	—	Ground.
29	TLSEL	I	Ch.3 & Ch.4 timer latch selection(Low:disable).
30	CNT5	I	Ch.6 ON/OFF function.
31	CNT4	I	Ch.5 ON/OFF function.
32	CNT2	I	Ch.2 ON/OFF function.
33	CNT3	I	Ch.3 & Ch.4 ON/OFF function.
34	CNT1	I	Ch.1 ON/OFF function.
35	VCC2	—	Power supply for output stage.
36	VDRV	O	Bias for logic circuit of output.
37	PGND1	—	Power ground.
38	OUT1S	O	Ch.1 source electrode of output stage.
39	OUT1	O	Ch.1 output(for Pch-MOSFET)
40	OUT4	O	Ch.4 output(for Pch-MOSFET)
41	OUT3	O	Ch.3 output(for Pch-MOSFET)
42	OUT2S	O	Ch.2 source electrode of output stage.
43	OUT2	O	Ch.2 output(for Pch-MOSFET)
44	OUT6S	O	Ch.6 source electrode of output stage.
45	OUT6	O	Ch.6 output(for Pch-MOSFET)
46	OUT5	O	Ch.5 output(for Pch-MOSFET)
47	OUT5S	O	Ch.5 source electrode of output stage.
48	PGND2	—	Power ground.

■ VHiZ86129S+-1Y (ASSY: IC1602)

- **NTSC Line21 Decoder IC**
- **Block Diagram**

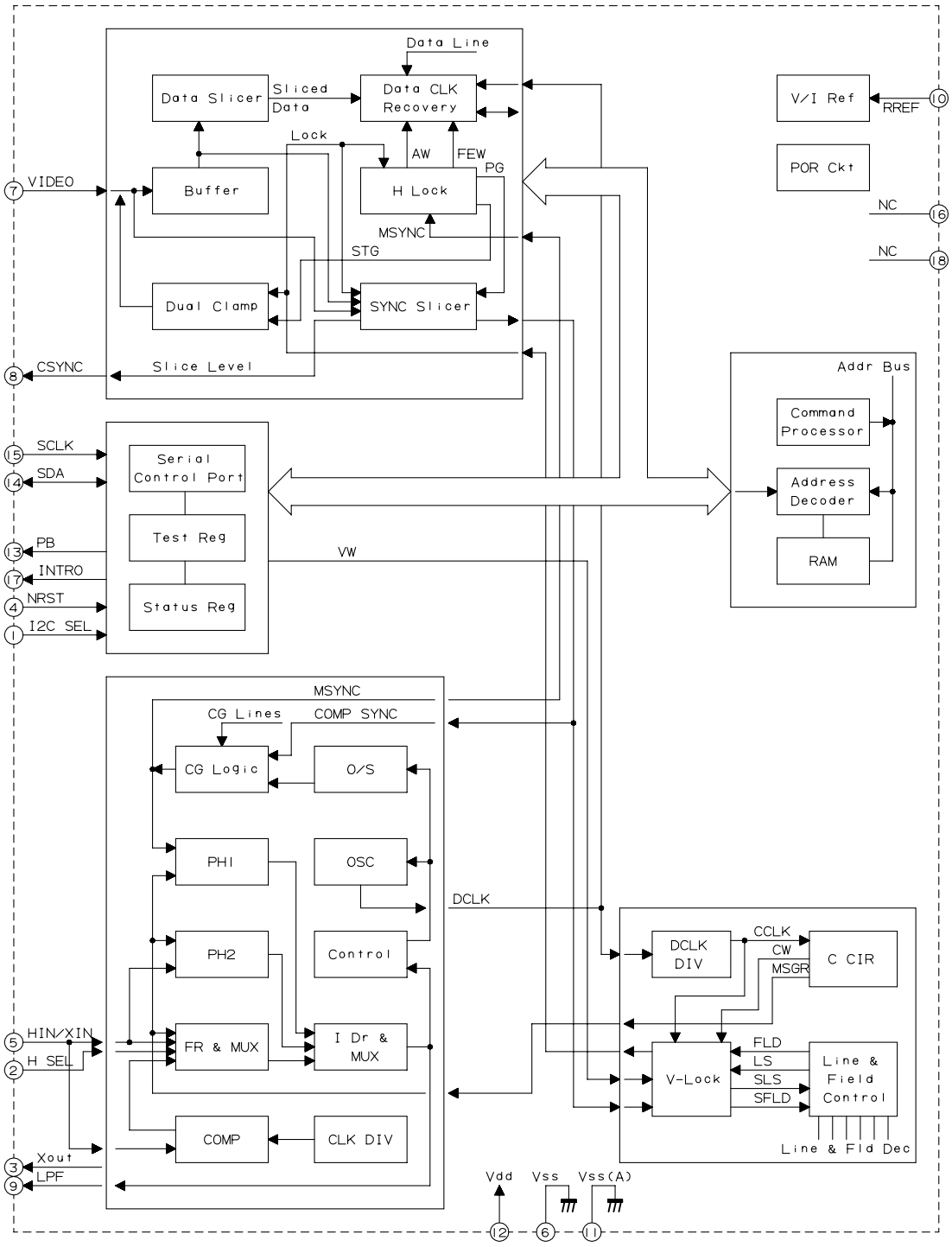


• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	Vss	—	Power Supply GND.
2	GREEN	O	Video Output
3	BLUE	0	Video Output
4	SEN	I	Serial Enable
5	HIN	I	Horizontal In
6	SMS	I	Serial Mode Select
7	VIDEO	I	Composite Video
8	CSYNC	O	Composite Sync
9	LPF	O	Loop Filter
10	RREF	I	Resistor Reference
11	Vss(A)	—	Power Supply (Analog) GND.
12	Vdd	—	Power Supply
13	Vin/INTRO	I/O	Vertical In/Interrupt Out
14	SDA	I/O	Serial Data
15	SCK	I	Serial Clock
16	SDO	O	Serial Data Out
17	BOX	O	OSD Timing Signal
18	RED	O	Video Output

■ VHiZ86230S+-1Y (ASSY: IC1601, IC1603)

- **NTSC Line21 Decoder IC**
- **Block Diagram**



• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	IICSEL	I	IIC Adderss Select
2	H SEL	I	HIN/XIN Select
3	Xout	0	XTAL Output
4	NRST	I	RESET
5	HIN/XIN	I	Horizontal In/XTAL In
6	Vss	—	Power Supply (Digital) GND.
7	VIDEO	I	Composite Video
8	CSYNC	O	Composite Sync
9	LPF	O	Loop Filter
10	RREF	I	Resistor Reference
11	Vss (A)	—	Power Supply (Analog) GND.
12	Vdd	—	Power Supply +5V
13	PB	O	Program Blocking
14	SDA	I/O	Serial Data
15	SCLK	I	Serial Clock
16	NC	—	No Connect
17	INTRO	O	Interrupt Output
18	NC	—	No Connect

7.3 IC DESCRIPTIONS

• Description of Main ICs

• IC1301 (CXA2069Q)
This IC is a 7-input, 3-output selector.
The video signals other than those for the PC and components, which have been input from each input connector and the tuner, and all the audio signals are sent to the IC1301 and then selected.
The video signals sent to the IC1301 are then input to the YC separation circuits, IC7001 (main) and IC402 (sub).
The audio signals are input to the PC I/F Unit via IC2501 (sound processor).

• IC1401 (MM1519XQ)
This IC is a 4-input, 3-output video selector for component input.
The VIDEO-1/3 Y/Pb/Pr signals, RGB component input and TV signal are input to the IC1401. The output signals go to the main, sub, and component channels.

• IC2501 (IX3370CE)
This IC is used to decode audio signals.
It serves as both the S-IF decoder and the selector for the input audio data.

• IC801/IC802 (TB1274AF)
This IC is intended for color TV brightness, chroma demodulation and sync processing.
It receives the main and sub brightness signals and color signals from IC7001 (main) and IC402 (sub) in the preceding stage, and gives out color difference signals.

• IC803 (CXA2101Q)
With a high-performance picture correction circuit incorporated, this IC consists of a base band video signal processing section for color difference input and a video switch (including HV sync signal processing).
Input selection is performed by INPUT-SEL (IIC BUS). The Y/Pb/Pr signals of Y/Cb/Cr/HD and their respective HV sync signals are input to each line.
As the multi-scanning compliance range, a horizontal scanning frequency of 15-60 kHz can be input.

• IC1901 (IXA194WJ)
This IC is FPGA for the synchronizing system.
It creates sand castle pulses for IC803 and generates horizontal blanking signals.

• IC604 (TA1318AF)
This IC synchronizes TV component signals.
The IC604 incorporates the necessary functions for measuring the frequency of input signals and synchronous replay into a single chip, and is applicable for horizontal synchronous replay (15.75, 31.5, 33.75, and 45 kHz) and vertical synchronous replay (525I, 525P, 625I, 750P, 1125I, 1125P, PAL 100 Hz, and NTSC 120 Hz).

• IC7001 (PD64082)
Through 3-dimensional NTSC signal processing, the PD64082 performs high-precision Y/C separation for main video signals sent from the IC1301.
In combination with a 4Mbit EDO (Hyper Page Mode) DRAM, this IC forms 3-dimensional Y/C separation and YNR/CNR system.

• IC402 (CXD2093Q)
This IC is a comb filter in the applicable field. Being a single high-precision Y/C chip, the 3-line comb filter performs the Y/C separation of the sub channel video signals that have been output from IC1301.

• IC804/IC810 (IX3473CE)
The IC804 is a 6.7 MHz low-pass filter, incorporating a 6 dB amplifier, for the sub screen.
The IC810, on the other hand, is a 6.7 MHz low-pass filter, also incorporating a 6 dB amplifier, for the main screen (for SDTV).

• IC811 (IX3474CE)
This IC is a 30 MHz low-pass filter, incorporating a 6 dB amplifier, for the main screen (for HDTV).

• IC1701 (FA3675CE)

This IC is designed to control the 6-channel PWM switching regulator.
With 5 step-up switching regulator lines incorporated, the IC converts +10V to +2.5V, +3.3V and +5.8V.
Also with a step-down switching regulator line incorporated, the IC converts +10V to +6.0V, -5.0V, +12V and +35V.
The lines are individually turned on and off.

• IC1602 (Z86129S)

The Z86129S is built in the TV decoder circuit and serves to process the vertical blanking interval (VBI) data that has come from the video signal field of the data corresponding to the transmission format defined by EIA-608.
The data flowing along Line 21 is composed of the data of some multiplexed data channels.
Field 1 has 4 data channels: 2 caption channels and 2 text channels.
Field 2 has 5 additional data channels: 2 caption channels, 2 text channels and expansion data service (XDS) channel. On any of these 9 data channels, the data transmitted can be recovered and displayed.

• IC1601/IC1603 (Z86230S)

The Z86230S functions for the process expansion data service (XDS) in Field 2 during the vertical blanking interval (VBI).
The XDS data is processed in order to specify the Program Blocking (PB) signal or recovered XDS data packets.
The on-chip XDS filter in the Z86230S enables to recover the XDS data packets only for programming.
The Z86230S is compatible with monitors (Picture-In-Picture) for violence blocking and other XDS data service.

• Description of Functions of Main ICs on PC I/F Unit

• IC4 (CXA3506R)

This IC is an A/D converter that incorporates a 3-channel, 8-bit, 120 MSPS amplifier and PLL. It is used for the video signals input to the I/F board on the main channel in the 1-screen and 2-screen modes, and also for the video signals input from the front for the PC.
The video signals (analog RGB) from the CN6 are input to IN1 of IC4.
For the PC, the video signals (analog RGB) from CN8 are input to IN2 of IC4.
The input video signals are converted into digital signals and then sent to IC25.

• IC310 (TLC5733A)

This IC is a 3-channel, 8-bit, 20 MSPS A/D converter.
It is used for the sub-channel of the video signals input to the PC I/F Unit in the 2-screen mode.
The video signals (analog Y, Cb, Cr) from CN6 are input to IC310.
The video signals input to this IC are converted into digital signals and then sent to IC25.

• IC25 (IX3434CE)

This IC performs the I/P conversion and scaling to match the digitalized video with the output resolution, and also the data conversion.
It has two input lines, V0 and V1. The V0 line is used to process the RGB, composite, and skirt signals input to the 480i and 580i components for the sub-channel in the 2-screen mode. The V1 line is used to process all the signals as well as V1 for the main channel in the 1-screen and 2-screen modes.
The IC25 detects what resolution is input from the input synchronizing signal; creates H synchronization in accordance with the frequency division ratio; creates the clamp signal in accordance with the input synchronizing signal; and performs the data matrix conversion.
The video signals input to this IC is sent to IC413.

• IC413 (SiL168)

This IC is a panel link transmitter.
It converts the 8-bit RGB video data output from IC25 into the differential TMDS signals and then digitally transmits the converted signals to the monitor.
The TMDS signals are transmitted at the frequency 10 times higher than the clock frequency.

• IC1 (IX3270CE)

This IC is a 1-chip RISC microprocessor.
It performs communication with the monitor and operates the system.
The IC1 also controls each IC in the AVC System and partially manages the power source.

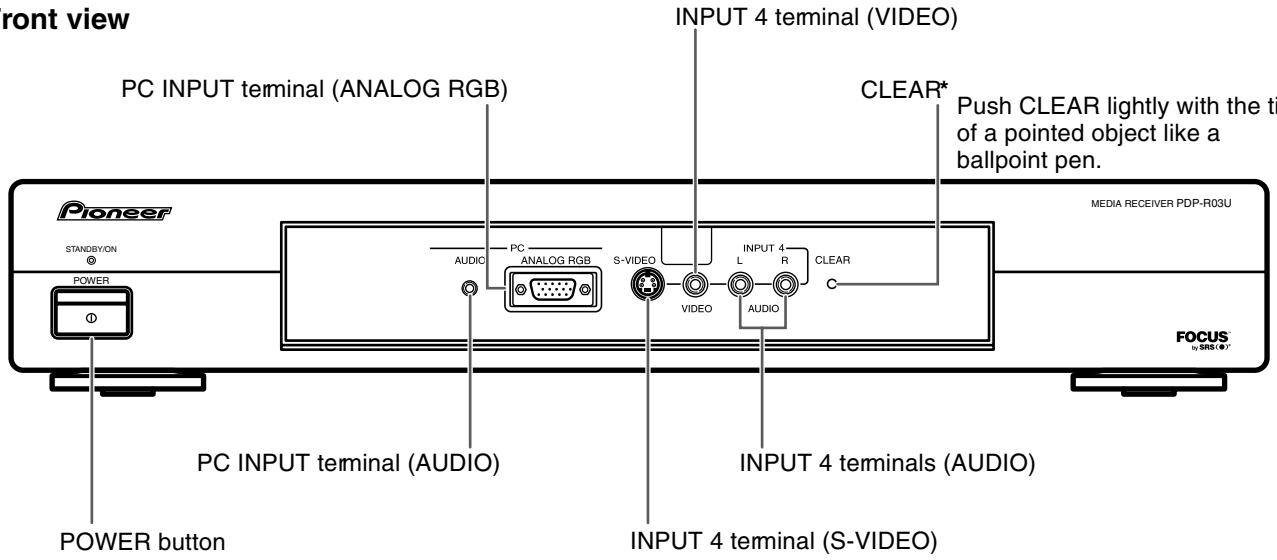
• IC405 (uPD4721)

This IC is an RS-232 line driver receiver conforming to the EIA/TIA-232-E standard.
The IC405, when connected to a PC, allows for externally controlling the system.
It is also applicable for upgrading IC1.

8. PANEL FACILITIES

Media Receiver

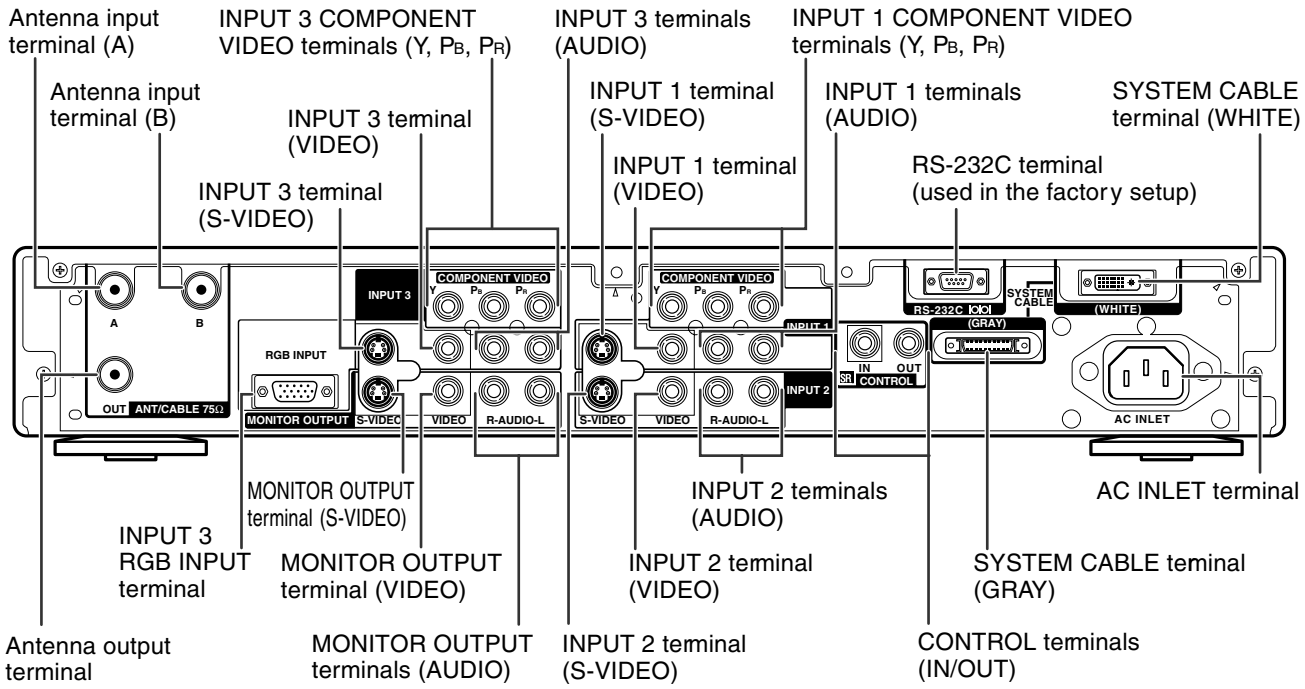
Front view



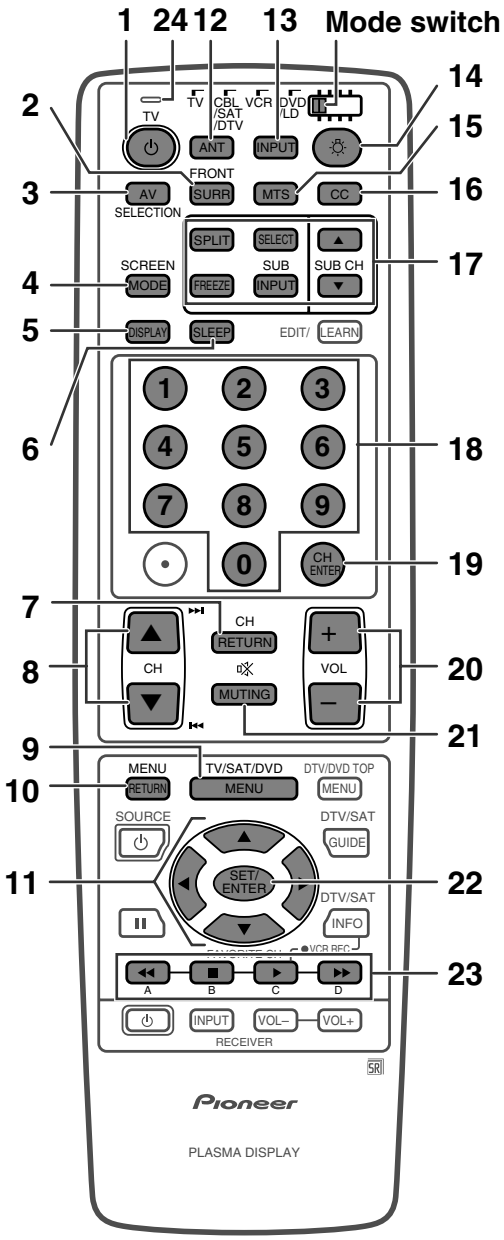
* If you're having problems operating the Media Receiver and want to return to normal screen, even when it stays on (the indicator lights green), press **CLEAR** on the Media Receiver. Pressing **CLEAR** resets the System as shown below.
  - AV SELECTION resets to STANDARD
  - TV channel returns to initial channel setting(Air:2ch, Cable:1 or 2ch)
  - Multiscreen resets to normal
  - Audio setting initializes
  - SRS resets to Off.
  - Image position initializes

NOTE
- Pressing **CLEAR** will not work if the System is in standby mode but the indicator lights red.
- Pressing **CLEAR** will not delete channel preset or secret number. See for initializing factory preset settings when you know your secret number. See for initializing factory preset values when you have for gotten your secret number.

Rear view



Remote control unit



NOTE
- When using the remote control unit, point it at the Plasma Display.

Set the mode switch to TV.

1 **TV ⏻ :** Switch the Plasma Display power on or off.
2 **FRONT SURR:** Set SRS and FOCUS Sound System.
3 **AV SELECTION:** Select an audio or video setting.
(AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER.
PC mode: STANDARD, USER.)
4 **SCREEN MODE:** Select the screen size.
5 **DISPLAY:** Display the channel information.
6 **SLEEP:** Set the SLEEP timer
7 **CH RETURN:** Return to the previous channel.
8 **CH ▲/▼ :** Select the channel.
9 **MENU:** Display the menu screen.
10 **MENU RETURN:** Return to the previous menu screen.
11 **▲/▼/◄/► :** Select a desired item on the setting screen.
12 **ANT:** Select the antenna. (A, B) (See page 12 for details)
13 **INPUT:** Select an input source of the Plasma Display.
(TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC)
14 ☼**:** When pressed all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in dark places.
15 **MTS:** Select the MTS/SAP.
16 **CC:** Display captions during closed-caption source.
17 **Dual picture mode select buttons**
SPLIT: Set the dual picture mode. Press again to return to normal screen.
FREEZE: Set the still image. Press again to return to normal screen.
SELECT: Select the active screen.
SUB INPUT: Select an input source of sub screen.
SUB CH ▲/▼ : Select the channel of sub screen.
18 **0 – 9:** Set the channel.
19 **CH ENTER:** Execute a channel number.
20 **VOL + /– :** Set the volume.
21 **MUTING:** Mute the sound.
22 **SET/ENTER:** Execute a command.
23 **FAVORITE CH**
A, **B**, **C**, **D:** Select any of four preset channels. (See page 25 for ditails to set the FAVORITE CH.)
While watching you can toggle the set channels by pressing A, B, C and D.
24 **LED for transmission confirmation**